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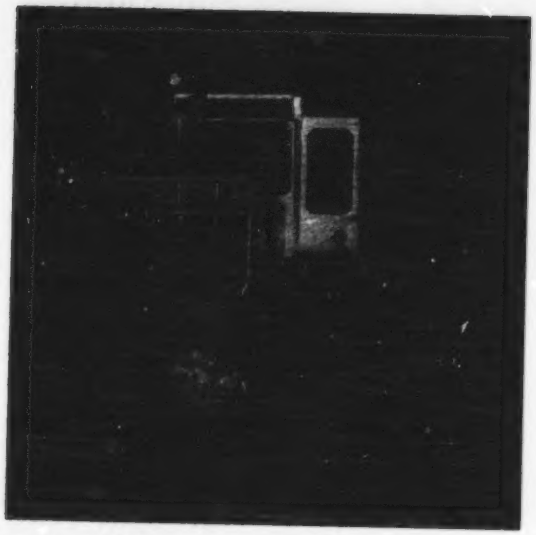

Farm Machinery Custom and Rental Rate Guide 1990

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INTRODUCTION

This publication gives detailed information regarding guidelines for machine ownership, operating costs, custom rates and rental rates for farm machinery. **This information is provided as a guideline and should be interpreted and adjusted for individual situations.**

The costs calculated in this booklet use the list price less a discount to arrive at an average selling price of a machine. Machine companies may reduce the actual selling price of the machinery below their suggested retail prices.

The intent of this booklet is to estimate both the ownership (fixed) and operating (variable) costs of owning machinery.

The farmer who has already invested in a machine for his own use may be in a position to do custom work for a neighbour for the suggested custom rate less the investment cost and still realize a return.

There may be individuals who have a custom farming business. In this instance all costs that are calculated must be included plus overhead costs (transportation, liability insurance, utility costs, advertising, shop equipment). Custom operators should determine these overhead costs before establishing their rates.

Assumptions

1. Interest on Investment is calculated at 13% (assumes 50% owned, 50% borrowed).

2. Diesel fuel is charged at $0.42 per litre, gasoline is charged at $0.48 per litre. **The Federal Fuel Tax Rebate of 3.5 cents/l was deducted when calculating the diesel price. The FST is the only rebate that applies on diesel used in custom work operations. The Federal Fuel Tax Rebate of 3.5 cents/l and the Federal Excise Gas Tax Refund of 1.5 cents/l were deducted when calculating the gasoline price. These are the only two rebates that apply on gasoline used in custom operations.** Oil and grease is charged at $0.35 per hour for each 100 hp.

3. Labor is charged at $9.00 per hour.

The first section of this publication is a summary of calculated custom rates and rental rates of specific items. The remainder of this book contains detailed calculations that were used to arrive at the total costs of renting or custom operating farm equipment. To illustrate the total costs three separate tables are used.

1. Machinery Costs Information
2. Rental Rate Calculation
3. Custom Rate Calculation

Machinery Cost Table

The basis for the machine cost data is new cost of the equipment. This information was collected in December 1989 and January 1990 using the most current equipment pricing guides of the major equipment manufacturers and various shortline manufacturers. The manufacturers suggested retail price was discounted 10% on machines valued up to $50,000, 15% for machines valued between $50,000 and $100,000 and 20% for machines valued over $100,000.

The machine cost data is given for a wide variety of farm equipment under different ranges of annual hours of use. The data is specific to each individual machine and details fixed costs (depreciation, investment cost, insurance and housing) and variable costs (repairs, fuel, oil and grease). The total cost per hour figure is the total cost of owning and operating that particular machine. In the case of drawn equipment, a power unit suitable to that drawn machine has been selected and the total cost of both the power unit and the drawn machine have been added together to arrive at an overall total cost for that operation.

Rental Rates Table

The rental rates section deals specifically with renting equipment for short time periods. The rates are not designed as lease rates, the rates would not be current for long term or seasonal lease arrangements.

Rental rates are calculated by adding the fixed costs (ownership costs) and repairs to arrive at the basic rental costs. The margin is calculated by multiplying the basic rental costs by 15%. The margin is added to cover risk, profit and management. The rental rates include an allowance for repair only. The renter is responsible for fuel and lubrication. No account is made to cover neglect by the renter. In the case of neglect, a settlement between the parties involved must be negotiated.

The rental rate is the addition of the basic rental costs and the margin. The rental rates are specific for each machine and if a complement (tractor and machine) is rented, the addition of the two machine rental rates should be used in establishing the rental rates of the complement.

The average rental rate is the average rental rate for the middle number of hours of use.

Custom Rates Table

The custom rates section deals specifically with rates for custom work including both the machine(s) and operator. The basic custom work costs are calculated by summing the total costs of the power unit (if applicable), machine, and the labor allowance per hour. A margin to cover risk, profit, management and an incentive for the operator is calculated by multiplying the basic custom costs by 15%. The custom rate is then determined by adding the basic custom work costs and the margin. In all cases a basic labor rate of 9.00 per hour is used. The average custom rate is the average custom rate for the middle number of hours of use.

The information provided in all three segments of the table are based on average conditions and should be used as guides only.

Additional points to consider when negotiating a custom work agreement are outlined in Appendix G, along with a sample of a custom farming agreement.

This publication has been compiled by the Farm Management Section, Economics Branch of Saskatchewan Agriculture and Food and contributions of the many people that assisted with the compiling and reviewing of this material are acknowledged.

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A. *How To Use This Bulletin*

1. Use the table of contents to locate the machine. Equipment is divided into the following sections a. Powered, b. Drawn - Grain, c. Drawn - Livestock and Forage, d. Drawn - Miscellaneous. Equipment is listed alphabetically within each section.

2. Locate the size of machine to be used and the number of hours of annual use (if you are unsure of the annual hours of work use the middle rate). The rental rate per hour and custom rate are calculated for each amount of usage.

3. If the machine you want the custom rate for does not correspond to one of the number of hours of use in this bulletin, or if you want to use a different investment cost you can calculate your own custom rate. Appendix D has a blank worksheet that can be used to calculate a custom rate with your specific information.

4. Some operations such as seeding, fertilizing or spraying require the use of a truck to haul seed, fertilizer or water to the field. The cost of the truck has not been included in the spraying or fertilizing custom rates. For an example of calculating truck usage see Appendix A.

5. Power units have been matched with drawn implements for average working conditions. Some soils may require a larger power unit than the one required for average conditions. Some operations in certain conditions could be performed using a smaller power unit than the one used in this publication.

6. This bulletin uses the cost approach of calculating custom rates. The cost approach may differ from the custom rate normally charged by custom operators for some operations. In reality the forces of demand and supply will determine the custom rates charged by custom operators.

7. Mathematical rounding of some of the calculations may cause an error of one or two cents. The calculated custom rate is the correct figure.

B. Summary of the 1990 Average Calculated Rental and Custom Rates

The following list is a summary of selected custom farming operations and their calculated custom and rental rates. These are calculated rates only and may require adjustment for individual situations. For example, the average calculated custom rates for combines is the average of conventional S.P., conventional P.T.O., Rotary S.P. and Rotary PTO combines. The average calculated custom rate is the average of the custom rates for each size of a particular machine for the middle number of hours of annual usage. The only exception is combines where the high number of hours of annual usage is averaged, to reflect the large number of acres covered by custom combiners. Detailed steps of how the rental and custom rates were calculated can be found in the preceding pages.

Powered Equipment	1990 Custom Rate	1990 Rental Rate
Bale Wagons	$ .47/bale	$ .42/bale*
Combines	12.60/ac**	9.60/ac*
Sprayers SP	1.05/ac	.75/ac
Swathers	8.90/ac	7.30/ac*
Tractors 2WD	.33-.59/PTO hp/hr	.14-.18/PTO hp/hr
Tractors 4WD	.30-.38/PTO hp/hr	.14-.19/PTO hp/hr
Drawn Equipment - Grain		
Air Seeders	$ 8.30/ac	$4.30/ac
Bulk Applicators	.75/ac	.75/ac
Cultivators, Field	3.70/ac	.90/ac
Cultivators, Heavy Duty	4.20/ac	1.10/ac
Cultivators, Wide Blade	5.60/ac	1.90/ac
Discers w/S.A., F.A.	6.60/ac	2.70/ac
Discs, Heavy Breaking	15.30/ac	5.30/ac
Discs, Tandem	6.70/ac	2.20/ac
Drill, Air Hoe	10.70/ac	7.10/ac
Drills, Disc, Hoe Press	10.70/ac	5.80/ac
Drills, No Till	14.90/ac	8.30/ac
Fertilizer Spreaders	2.00/ac	.60/ac
Harrows and Drawbars	1.70/ac	.50/ac
Harrow Packers	2.90/ac	1.15/ac
Plows	14.00/ac	4.90/ac
Pneumatic Grain Movers	.05/bu	.02/bu
Rodweeders	3.20/ac	.95/ac
Sprayers, PTO	2.00/ac	1.10/ac
Swathers, Single Swath	4.40/ac	2.30/ac

Drawn Equipment - Livestock and Forage	1990 Custom Rate	1990 Rental Rate
Balers - Large Round*** (4' x 5' or 4' x 6')	$8.00/bale	$5.30/bale
Balers - Standard*** (less 2 sq. ft. bale chamber w x h)	.36/bale	.21/bale
Bale Wagons PTO	.44/bale	.26/bale
Grinder Mixer (120-150 bu)	62.00/hr	21.00/hr
Hay Rakes	5.90/ac	2.10/ac
Loose Hay Stackers	11.80/T.	8.00/T.
Mower Conditioners	13.40/ac	8.90/ac
Mowers, Sickle	8.70/ac	3.50/ac
Post Pounders	30.80/hr	7.60/hr
Rotary Cutter (10 ft)	45.40/hr	19.10/hr
Tub Grinder (8 T.)	61.00/hr	20.50/hr

* The rental rate is an average of self propelled equipment only.
** An average of all combines SP and PTO.
*** excludes twine

Custom Trucking

Custom rate from farm to market is $.09/bu. for the first 3 miles plus $.009/bu. for each additional mile up to a total of 25 miles.

Custom rate from field to yard hauling from one combine is $.14/bu. for the first mile plus $.011/bu. for each additional mile.

POWERED EQUIPMENT

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	FUEL TYPE + LITRES /HR.	MACHINE COMPONENT COSTS PER HOUR: FIXED COST $/HR	REPAIR COSTS $/HR.	FUEL COST $/HR	LUBE & OIL COSTS $/HR	TOTAL COSTS PER HOUR (NO LABOR) $/HR.	LABOUR COSTS $/HR.	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	CUSTOM WORK RATES: BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
BALE WAGONS SP																	
160 BALE	84300	60	18	186.76	16.86	8.64	0.35	212.61		203.62	30.54	234.17	221.61	33.24	254.86		$/BALE
(100 HP)		100	(G)	119.28	16.86	8.64	0.35	145.13	9.00	136.14	20.42	156.57	154.13	23.12	177.25	375	0.68
		140		90.76	16.86	8.64	0.35	116.61		107.62	16.14	123.76	125.61	18.84	144.45	BLS/HR	0.47
										Average Rental Rate Per Bale		0.42	Average Custom Rate Per Bale				0.39
COMBINES SP ROTARY W/PICKUP																	
SMALL	91800	120	19	115.31	19.58	7.98	0.56	143.43		134.89	20.23	155.13	152.43	22.86	175.30		$/AC
		150	(D)	95.78	19.58	7.98	0.56	123.90	9.00	115.36	17.30	132.67	132.90	19.94	152.84	8.0	21.91
		180		83.29	19.58	7.98	0.56	111.42		102.88	15.43	118.31	120.42	18.06	138.48	AC/HR	19.10
		350		49.15	19.58	7.98	0.56	77.27		68.73	10.31	79.04	86.27	12.94	99.21		17.31
MEDIUM	109100	120	25	137.04	23.27	10.50	0.67	171.48		160.31	24.05	184.36	180.48	27.07	207.55		12.40
		150	(D)	113.83	23.27	10.50	0.67	148.27	9.00	137.10	20.57	157.67	157.27	23.59	180.86	9.5	21.85
		180		98.99	23.27	10.50	0.67	133.43		122.26	18.34	140.60	142.43	21.36	163.79	AC/HR	19.04
		350		58.41	23.27	10.50	0.67	92.85		81.68	12.25	93.94	101.85	15.28	117.13		17.24
LARGE	128600	120	32	161.53	27.43	13.44	0.88	203.28		188.97	28.35	217.31	212.28	31.84	244.13		12.33
		150	(D)	134.17	27.43	13.44	0.88	175.92	9.00	161.61	24.24	185.85	184.92	27.74	212.66	12.0	20.34
		180		116.68	27.43	13.44	0.88	158.43		144.12	21.62	165.73	167.43	25.11	192.55	AC/HR	17.72
		350		68.85	27.43	13.44	0.88	110.60		96.28	14.44	110.73	119.60	17.94	137.54		16.05
										Average Rental Rate Per Acre		9.67	Average Custom Rate Per Acre				11.46
COMBINES SP CONVENTIONAL W/PICKUP																	12.06
LESS THAN	87100	120	27	109.41	18.58	11.34	0.56	139.89		127.99	19.20	147.18	148.89	22.33	171.22		$/AC
15999 SQ IN		150	(D)	90.87	18.58	11.34	0.56	121.36	9.00	109.46	16.42	125.87	130.36	19.55	149.91	7.5	22.83
		180		79.03	18.58	11.34	0.56	109.51		97.61	14.64	112.25	118.51	17.78	136.29	AC/HR	19.99
		350		46.63	18.58	11.34	0.56	77.11		65.21	9.78	74.99	86.11	12.92	99.03		18.17
16000-	101600	120	30	127.62	21.67	12.60	0.67	162.56		149.29	22.39	171.69	171.56	25.73	197.29		13.20
19999 SQ IN		150	(D)	106.00	21.67	12.60	0.67	140.94	9.00	127.68	19.15	146.83	149.94	22.49	172.43	9.5	20.77
		180		92.18	21.67	12.60	0.67	127.12		113.86	17.08	130.94	136.12	20.42	156.54	AC/HR	18.15
		350		54.39	21.67	12.60	0.67	89.33		76.07	11.41	87.48	98.33	14.75	113.08		16.48
20000+	120600	120	32	151.48	25.73	13.44	0.88	191.53		177.21	26.58	203.79	200.53	30.08	230.61		11.90
SQ IN		150	(D)	125.83	25.73	13.44	0.88	165.87	9.00	151.55	22.73	174.29	174.87	26.23	201.10	11.0	20.96
		180		109.42	25.73	13.44	0.88	149.47		135.15	20.27	155.42	158.47	23.77	182.24	AC/HR	18.28
		350		64.57	25.73	13.44	0.88	104.61		90.29	13.54	103.84	113.61	17.04	130.65		16.57
										Average Rental Rate Per Acre		9.55	Average Custom Rate Per Acre				11.88
																	12.33

Straight Combining Adjustments

Standard Straight Cut Header

- For a 20' straight cut header add $.77/hr to the combine custom rate per hour and divide by the workrate in acres per hour to calculate the custom rate per acre.
- For a 24-25' straight cut header add $1.73/hr to the combine custom rate per hour and divide by the workrate in acres per hour to calculate the custom rate per acre.
- For a 30' straight cut header add $3.35/hr to the combine custom rate per hour and divide by the estimated workrate in acres per hour to calculate the custom rate per acre (the straight cut workrate may be 20% higher than the pickup workrate).

Flex Header and Pickup Reels

- For a 20' flex header and pickup reels, add $3.70/hr to the combine custom rate per hour and divide by the workrate in acres per hour to calculate the custom rate per acre.
- For a 25' flex header with pickup reels, add $5.93/hr to the combine custom rate per hour and divide by the workrate in acres per hour to calculate the custom rate per acre.
- For a 30' flex header with pickup reels, add $8.41/hr to the combine custom rate per hour and divide by the workrate in acres per hour to calculate the custom rate per acre.

POWERED EQUIPMENT

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	FUEL TYPE + LITRES /HR.	FIXED COST $/HR	REPAIR COSTS $/HR.	FUEL COST $/HR	LUBE & OIL COSTS $/HR	TOTAL COSTS PER HOUR (NO LABOR) $/HR.	LABOUR COSTS $/HR.	BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
GRAIN AUGERS																	
7 IN.	2800	25	1	14.73	1.12	0.48	0.04	16.36									
30-37 FT		50	(G)	7.92	1.12	0.48	0.04	9.56									
(W/16 HP)		75		5.63	1.12	0.48	0.04	7.26			SEF						
7 IN.	3210	25	1.4	16.88	1.28	0.67	0.06	18.90									
38-45 FT		50	(G)	9.08	1.28	0.67	0.06	11.10			GRAIN						
(W/18 HP)		75		6.45	1.28	0.67	0.06	8.46									
8 IN	2390	25		12.57	0.96			13.53			HAULING						
40-51 FT		50		6.76	0.96			7.72									
PTO		75		4.80	0.96			5.76									
10 IN	4610	25		24.25	1.84			26.09			SECTION						
50-65 FT		50		13.05	1.84			14.89									
PTO		75		9.26	1.84			11.11									
SPRAYERS																	$/AC
SP	24500	50	8	54.16	4.90	3.84	0.26	63.16		59.06	8.86	67.92	72.16	10.82	82.99		1.66
51 FT		100	(G)	28.45	4.90	3.84	0.26	37.45	9.00	33.35	5.00	38.35	46.45	6.97	53.42	50.0	1.07
		200		15.50	4.90	3.84	0.26	24.50		20.40	3.06	23.46	33.50	5.02	38.52	AC/HR	0.77
NOTE: To include the cost of hauling water to the field add $0.56 per acre (assume 7.5 gal/ac, 12 mile haul & $6.00 water cost)										Average Rental Rate Per Acre		0.77	Average Custom Rate Per Acre				1.07
SWATHERS																	
SP																	$/AC
18 FT	39900	60	13	88.40	8.78	5.46	0.26	102.90		97.18	14.58	111.75	111.90	16.78	128.68		15.14
STANDARD		100	(D)	56.46	8.78	5.46	0.26	70.96	9.00	65.24	9.79	75.02	79.96	11.99	91.95	8.5	10.82
TABLE		140		42.96	8.78	5.46	0.26	57.46		51.74	7.76	59.50	66.46	9.97	76.43	AC/HR	8.99
20-22 FT	43800	60	14	97.04	9.64	5.88	0.32	112.87		106.67	16.00	122.67	121.87	18.28	140.15		14.75
SLIDING		100	(D)	61.98	9.64	5.88	0.32	77.81	9.00	71.61	10.74	82.35	86.81	13.02	99.83	9.5	10.51
TABLE		140		47.16	9.64	5.88	0.32	62.99		56.79	8.52	65.31	71.99	10.80	82.79	AC/HR	8.71
24-26 FT	44600	60	14	98.81	9.81	5.88	0.32	114.82		108.62	16.29	124.92	123.82	18.57	142.39		12.38
SLIDING		100	(D)	63.11	9.81	5.88	0.32	79.12	9.00	72.92	10.94	83.86	88.12	13.22	101.33	11.5	8.81
TABLE		140		48.02	9.81	5.88	0.32	64.03		57.83	8.67	66.51	73.03	10.95	83.98	AC/HR	7.30
30 FT	46300	60	15	102.58	10.19	6.30	0.32	119.38		112.76	16.91	129.68	128.38	19.26	147.63		10.55
SLIDING		100	(D)	65.51	10.19	6.30	0.32	82.32	9.00	75.70	11.36	87.06	91.32	13.70	105.01	14.0	7.50
TABLE		140		49.85	10.19	6.30	0.32	66.65		60.03	9.01	69.04	75.65	11.35	87.00	AC/HR	6.21
36 FT	48200	60	16	106.79	10.60	6.72	0.32	124.42		117.39	17.61	135.00	133.42	20.01	153.44		9.30
SLIDING		100	(D)	68.20	10.60	6.72	0.32	85.84	9.00	78.81	11.82	90.63	94.84	14.23	109.07	16.5	6.61
TABLE		140		51.89	10.60	6.72	0.32	69.53		62.50	9.37	71.87	78.53	11.78	90.31	AC/HR	5.47
NOTE: To include a hay conditioner add $11.39/hour to the custom rate/hour and divide by the number of acres/hour.										Average Rental Rate Per Acre		7.30	Average Custom Rate Per Acre				8.85

POWERED EQUIPMENT

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	FUEL TYPE + LITRES /HR.	MACHINE COMPONENT COSTS PER HOUR: FIXED COST $/HR	REPAIR COSTS $/HR.	FUEL CUST $/HR	LUBE & OIL COSTS $/HR	TOTAL COSTS PER HOUR (NO LABOR) $/HR.	LABOUR COSTS $/HR.	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	CUSTOM WORK RATES: BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
TRACTORS 2WD (PTO-HP)																	
30-39 HP	17600	400	8	6.32	0.91	3.36	0.12	10.71		7.23	1.08	8.31	19.71	2.96	22.67		
		600	(D)	4.42	0.91	3.36	0.12	8.81	9.00	5.33	0.80	6.13	17.81	2.67	20.49		
		800		3.51	0.91	3.36	0.12	7.91		4.42	0.66	5.09	16.91	2.54	19.44		
40-49 HP	18700	400	9	6.71	0.97	3.78	0.16	11.62		7.68	1.15	8.83	20.62	3.09	23.71		
		600	(D)	4.70	0.97	3.78	0.16	9.60	9.00	5.66	0.85	6.51	18.60	2.79	21.39		
		800		3.73	0.97	3.78	0.16	8.64		4.70	0.71	5.41	17.64	2.65	20.28		
50-59 HP	22300	400	10	8.00	1.15	4.20	0.19	13.55		9.16	1.37	10.53	22.55	3.38	25.93		
		600	(D)	5.60	1.15	4.20	0.19	11.15	9.00	6.75	1.01	7.77	20.15	3.02	23.17		
		800		4.45	1.15	4.20	0.19	10.00		5.61	0.84	6.45	19.00	2.85	21.85		
60-69 HP	25700	400	14	9.22	1.33	5.88	0.23	16.66		10.55	1.58	12.13	25.66	3.85	29.51		
		600	(D)	6.46	1.33	5.88	0.23	13.89	9.00	7.78	1.17	8.95	22.89	3.43	26.33		
		800		5.13	1.33	5.88	0.23	12.57		6.46	0.97	7.43	21.57	3.24	24.80		
70-79 HP	35600	400	16	12.78	1.84	6.72	0.26	21.60		14.62	2.19	16.81	30.60	4.59	35.19		
		600	(D)	8.94	1.84	6.72	0.26	17.77	9.00	10.78	1.62	12.40	26.77	4.01	30.78		
		800		7.11	1.84	6.72	0.26	15.93		8.95	1.34	10.29	24.93	3.74	28.67		
80-89 HP	41800	400	18	15.00	2.16	7.56	0.30	25.02		17.16	2.57	19.74	34.02	5.10	39.12		
		600	(D)	10.50	2.16	7.56	0.30	20.52	9.00	12.66	1.90	14.56	29.52	4.43	33.95		
		800		8.35	2.16	7.56	0.30	18.36		10.51	1.58	12.08	27.36	4.10	31.47		
90-99 HP	46300	400	20	16.62	2.39	8.40	0.33	27.74		19.01	2.85	21.86	36.74	5.51	42.25		
		600	(D)	11.63	2.39	8.40	0.33	22.76	9.00	14.02	2.10	16.13	31.76	4.76	36.52		
		800		9.25	2.39	8.40	0.33	20.37		11.64	1.75	13.38	29.37	4.41	33.78		
100-119 HP	53800	400	23	19.31	2.78	9.66	0.39	32.13		22.09	3.31	25.40	41.13	6.17	47.30		
		600	(D)	13.52	2.78	9.66	0.39	26.34	9.00	16.30	2.44	18.74	35.34	5.30	40.64		
		800		10.74	2.78	9.66	0.39	23.57		13.52	2.03	15.55	32.57	4.89	37.45		
120-139 HP	60000	400	28	21.54	3.10	11.76	0.46	36.85		24.64	3.70	28.33	45.85	6.88	52.73		
		600	(D)	15.07	3.10	11.76	0.46	30.39	9.00	18.17	2.73	20.90	39.39	5.91	45.30		
		800		11.98	3.10	11.76	0.46	27.30		15.08	2.26	17.34	36.30	5.44	41.74		
140-159 HP	67100	400	32	24.08	3.47	13.44	0.53	41.52		27.55	4.13	31.68	50.52	7.58	58.09		
		600	(D)	16.86	3.47	13.44	0.53	34.29	9.00	20.32	3.05	23.37	43.29	6.49	49.78		
		800		13.40	3.47	13.44	0.53	30.83		16.87	2.53	19.40	39.83	5.97	45.81		
160-179 HP	72300	400	39	25.95	3.74	16.38	0.60	46.66		29.69	4.45	34.14	55.66	8.35	64.01		
		600	(D)	18.16	3.74	16.38	0.60	38.87	9.00	21.90	3.28	25.18	47.87	7.18	55.05		
		800		14.44	3.74	16.38	0.60	35.15		18.17	2.73	20.90	44.15	6.62	50.77		
180+ HP	80000	400	46	28.71	4.13	19.32	0.63	52.80		32.85	4.93	37.77	61.80	9.27	71.07		
		600	(D)	20.10	4.13	19.32	0.63	44.18	9.00	24.23	3.63	27.87	53.18	7.98	61.16		
		800		15.98	4.13	19.32	0.63	40.06		20.11	3.02	23.13	49.06	7.36	56.42		

NOTE: For MFWD add the following to the CUSTOM RATE $/HR, 30-89HP add $0.026/HP/HR.
over 90HP add $0.02 /HP/HR

POWERED EQUIPMENT

				MACHINE COMPONENT COSTS PER HOUR						MACHINE RENTAL PER HOUR			CUSTOM WORK RATES				
MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	FUEL TYPE + LITRES /HR.	FIXED COST $/HR	REPAIR COSTS $/HR.	FUEL COST $/HR	LUBE & OIL COSTS $/HR	TOTAL COSTS PER HOUR (NO LABOR) $/HR.	LABOUR COSTS $/HR.	BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
TRACTORS 4WD (PTO-HP)																	
100-149 HP	56900	400	35	20.42	2.47	14.70	0.44	38.03		22.89	3.43	26.32	47.03	7.05	54.08		
		600	(D)	14.29	2.47	14.70	0.44	31.90	9.00	16.76	2.51	19.27	40.90	6.13	47.03		
		800		11.36	2.47	14.70	0.44	28.97		13.83	2.07	15.90	37.97	5.69	43.66		
150-174 HP	88900	400	41	31.91	3.85	17.22	0.57	53.55		35.76	5.36	41.12	62.55	9.38	71.93		
		600	(D)	22.33	3.85	17.22	0.57	43.97	9.00	26.19	3.93	30.11	52.97	7.95	60.92		
		800		17.75	3.85	17.22	0.57	39.39		21.61	3.24	24.85	48.39	7.26	55.65		
175-199 HP	89700	400	46	32.20	3.89	19.32	0.65	56.06		36.08	5.41	41.49	65.06	9.76	74.82		
		600	(D)	22.53	3.89	19.32	0.65	46.40	9.00	26.42	3.96	30.38	55.40	8.31	63.71		
		800		17.91	3.89	19.32	0.65	41.77		21.80	3.27	25.07	50.77	7.62	58.39		
200-249 HP	108600	400	54	38.98	4.71	22.68	0.79	67.15		43.68	6.55	50.24	76.15	11.42	87.58		
		600	(D)	27.28	4.71	22.68	0.79	55.46	9.00	31.99	4.80	36.79	64.46	9.67	74.12		
		800		21.69	4.71	22.68	0.79	49.86		26.39	3.96	30.35	58.86	8.83	67.69		
250-299 HP	116600	400	64	41.85	5.05	26.88	0.96	74.75		46.90	7.04	53.94	83.75	12.56	96.31		
		600	(D)	29.29	5.05	26.88	0.96	62.19	9.00	34.34	5.15	39.50	71.19	10.68	81.87		
		800		23.29	5.05	26.88	0.96	56.18		28.34	4.25	32.59	65.18	9.78	74.96		
300+ HP	148500	460	82	53.30	6.44	34.44	1.05	95.23		59.73	8.96	68.70	104.23	15.63	119.86		
		600	(D)	37.31	6.44	34.44	1.05	79.23	9.00	43.74	6.56	50.30	88.23	13.24	101.47		
		800		29.66	6.44	34.44	1.05	71.58		36.09	5.41	41.50	80.58	12.09	92.67		
TRUCKS GRAIN																	
1 TON	23400	100	18	34.67	3.90	8.64	0.42	47.63		38.57	5.79	44.36	56.63	8.49	65.13		
		150	(G)	24.41	3.90	8.64	0.42	37.37	9.00	28.31	4.25	32.56	46.37	6.96	53.33		
		200		19.11	3.90	8.64	0.42	32.07		23.01	3.45	26.46	41.07	6.16	47.23		
3 TON	33100	100	23	49.04	5.52	11.04	0.42	66.02		54.56	8.18	62.74	75.02	11.25	86.27		
		150	(G)	34.53	5.52	11.04	0.42	51.51	9.00	40.05	6.01	46.06	60.51	9.08	69.59		
		200		27.03	5.52	11.04	0.42	44.01		32.55	4.88	37.43	53.01	7.95	60.96		
4 TON TANDEM DIESEL	63500	100	19	94.09	10.58	7.98	0.49	113.14		104.67	15.70	120.37	122.14	18.32	140.46		
		150	(D)	66.25	10.58	7.98	0.49	85.31	9.00	76.84	11.53	88.36	94.31	14.15	108.45		
		200		51.85	10.58	7.98	0.49	70.91		62.44	9.37	71.80	79.91	11.99	91.89		
1T trucks were priced with grain box, and hoist 3T and 4T trucks were priced with grain box, hoist, and roll tarp See appendix for custom grain hauling for seeding and harvesting																	
TRUCKS PICK-UP																	
1/2 TON	16600	200	14	13.88	2.06	6.72	0.35	23.01		15.94	2.39	18.33	32.01	4.80	36.81		
		250	(G)	11.39	2.06	6.72	0.35	20.52	9.00	13.45	2.02	15.46	29.52	4.43	33.94		
		300		9.75	2.06	6.72	0.35	18.88		11.81	1.77	13.58	27.88	4.18	32.06		
3/4 ton	18000	200	16	15.05	2.23	7.68	0.35	25.31		17.28	2.59	19.87	34.31	5.15	39.46		
		250	(G)	12.35	2.23	7.68	0.35	22.61	9.00	14.58	2.19	16.77	31.61	4.74	36.35		
		300		10.57	2.23	7.68	0.35	20.84		12.81	1.92	14.73	29.84	4.48	34.31		

DRAWN EQUIPMENT – GRAIN

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
AIR SEEDERS INCL CULT																
24 FT	35000	100	47.05	7.00	54.05	54.05	8.11	62.16	54.05							$/AC
		150	33.02	7.00	40.02	40.02	6.00	46.02	40.02	30.39	9.00	93.44	14.02	107.46		10.75
		200	25.93	7.00	32.93	32.93	4.94	37.87	32.93	130 HP		79.40	11.91	91.32	10.0	9.13
												72.32	10.85	83.16	AC/HR	8.32
28-30 FT	39800	100	53.51	7.96	61.47	61.47	9.22	70.69	61.47							
		150	37.54	7.96	45.50	45.50	6.83	52.33	45.50	34.29	9.00	104.76	15.71	120.47		10.04
		200	29.49	7.96	37.45	37.45	5.62	43.06	37.45	150 HP		88.79	13.32	102.11	12.0	8.51
												80.73	12.11	92.84	AC/HR	7.74
34-35 FT	48900	100	65.74	9.78	75.52	75.52	11.33	86.85	75.52							
		150	46.13	9.78	55.91	55.91	8.39	64.30	55.91	38.87	9.00	123.40	18.51	141.90		9.79
		200	36.23	9.78	46.01	46.01	6.90	52.91	46.01	170 HP		103.78	15.57	119.35	14.5	8.23
												93.88	14.08	107.96	AC/HR	7.45
40-41 FT	52200	100	70.18	10.44	80.62	80.62	12.09	92.71	80.62							
		150	49.24	10.44	59.68	59.68	8.95	68.63	59.68	46.40	9.00	136.01	20.40	156.42		9.20
		200	38.67	10.44	49.11	49.11	7.37	56.48	49.11	185 HP		115.08	17.26	132.34	17.0	7.78
												104.51	15.68	120.18	AC/HR	7.07
46-47 FT	55700	100	74.88	11.14	86.02	86.02	12.90	98.93	86.02							
		150	52.54	11.14	63.68	63.68	9.55	73.24	63.68	55.46	9.00	150.48	22.57	173.05		9.11
		200	41.26	11.14	52.40	52.40	7.86	60.27	52.40	225 HP		128.14	19.22	147.36	19.0	7.76
												116.86	17.53	134.39	AC/HR	7.07
					Average Rental Rate Per Acre			4.26								
														Average Custom Rate Per Acre		8.28

Note: If equipped with mounted harrows add $0.40/AC
If equipped with tow behind packers add $1.45/AC

BULK APPLICATORS, CULTIVATOR MOUNT (GRANULES)																
41-46 FT	6000	60	13.78	2.25	16.03	16.03	2.40	18.43	16.03							$/AC
		80	10.61	2.25	12.86	12.86	1.93	14.79	12.86			16.03	2.40	18.43		0.92
		100	8.75	2.25	11.00	11.00	1.65	12.65	11.00			12.86	1.93	14.79	20.0	0.74
												11.00	1.65	12.65	AC/HR	0.63
					Average Rental Rate Per Acre			0.74						Average Custom Rate Per Acre		0.74
COMBINES, CONVENTIONAL, PTO																
LESS THAN 13999 SQR IN.	50200	120	63.06	10.71	73.77	73.77	11.06	84.83	73.77							$/AC
		150	52.38	10.71	63.08	63.08	9.46	72.55	63.08	26.34	9.00	109.11	16.37	125.47		20.91
		180	45.55	10.71	56.26	56.26	8.44	64.70	56.26	115 HP		98.42	14.76	113.19	6.0	18.86
		350	26.88	10.71	37.59	37.59	5.64	43.22	37.59			91.60	13.74	105.34	AC/HR	17.56
												72.93	10.94	83.86		13.98
MORE THAN 14000 SQR IN.	81900	120	102.87	17.47	120.35	120.35	18.05	138.40	120.35							
		150	85.45	17.47	102.92	102.92	15.44	118.36	102.92	34.29	9.00	163.63	24.55	188.18		20.91
		180	74.31	17.47	91.78	91.78	13.77	105.55	91.78	150 HP		146.21	21.93	168.14	9.0	18.68
		350	43.85	17.47	61.32	61.32	9.20	70.52	61.32			135.07	20.26	155.33	AC/HR	17.26
												104.61	15.69	120.30		13.37
COMBINES ROTARY PTO LARGE	76500	120	96.09	16.32	112.41	112.41	16.86	129.27	112.41							
		150	79.82	16.32	96.14	96.14	14.42	110.56	96.14	38.87	9.00	160.28	24.04	184.33		16.76
		180	69.41	16.32	85.73	85.73	12.86	98.59	85.73	170 HP		144.01	21.60	165.61	11.0	15.06
		350	40.96	16.32	57.28	57.28	8.59	65.87	57.28			133.60	20.04	153.64	AC/HR	13.97
												105.15	15.77	120.92		10.99
					Average Rental Rate Per Acre			7.01						Average Custom Rate Per Acre		12.78

DRAWN EQUIPMENT – GRAIN

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
FIELD CULTIVATORS																$/AC
14-15 FT	4050	150	3.59	0.89	4.48	4.48	0.67	5.15	4.48			27.37	4.11	31.48		4.20
		250	2.29	0.89	3.18	3.18	0.48	3.66	3.18	13.89	9.00	26.07	3.91	29.99	7.5	4.00
		350	1.74	0.89	2.64	2.64	0.40	3.03	2.64	65 HP		25.53	3.83	29.36	AC/HR	3.91
20-21 FT	7800	150	6.91	1.72	8.63	8.63	1.29	9.92	8.63			38.15	5.72	43.87		4.39
		250	4.41	1.72	6.13	6.13	0.92	7.05	6.13	20.52	9.00	35.65	5.35	41.00	10.0	4.10
		350	3.36	1.72	5.08	5.08	0.76	5.84	5.08	85 HP		34.59	5.19	39.78	AC/HR	3.98
25-27FT	13600	150	12.05	2.99	15.04	15.04	2.26	17.30	15.04			50.38	7.56	57.94		4.29
		250	7.70	2.99	10.69	10.69	1.60	12.29	10.69	26.34	9.00	46.03	6.90	52.93	13.5	3.92
		350	5.86	2.99	8.85	8.85	1.33	10.18	8.85	110 HP		44.19	6.63	50.82	AC/HR	3.76
33-34 FT	16900	150	14.98	3.72	18.69	18.69	2.80	21.50	18.69			58.08	8.71	66.80		4.05
		250	9.57	3.72	13.28	13.28	1.99	15.28	13.28	30.39	9.00	52.67	7.90	60.57	16.5	3.67
		350	7.28	3.72	11.00	11.00	1.65	12.65	11.00	130 HP		50.38	7.56	57.94	AC/HR	3.51
41-45 FT	19600	150	17.37	4.31	21.68	21.68	3.25	24.93	21.68			64.97	9.75	74.72		3.48
		250	11.09	4.31	15.41	15.41	2.31	17.72	15.41	34.29	9.00	58.69	8.80	67.50	21.5	3.14
		350	8.44	4.31	12.75	12.75	1.91	14.67	12.75	150 HP		56.04	8.41	64.45	AC/HR	3.00
46-50 FT	25900	150	22.95	5.70	28.65	28.65	4.30	32.95	28.65			76.52	11.48	88.00		3.67
		250	14.66	5.70	20.36	20.36	3.05	23.41	20.36	38.87	9.00	68.23	10.23	78.47	24.0	3.27
		350	11.15	5.70	16.85	16.85	2.53	19.38	16.85	170 HP		64.73	9.71	74.43	AC/HR	3.10
51-55 FT	30150	150	26.72	6.63	33.35	33.35	5.00	38.35	33.35			88.75	13.31	102.06		3.85
		250	17.06	6.63	23.70	23.70	3.55	27.25	23.70	46.40	9.00	79.09	11.86	90.96	26.5	3.43
		350	12.98	6.63	19.62	19.62	2.94	22.56	19.62	185 HP		75.01	11.25	86.27	AC/HR	3.26
56-60 FT	36400	150	32.26	8.01	40.27	40.27	6.04	46.31	40.27			104.72	15.71	120.43		4.15
		250	20.60	8.01	28.61	28.61	4.29	32.90	28.61	55.46	9.00	93.07	13.96	107.03	29.0	3.69
		350	15.68	8.01	23.68	23.68	3.55	27.24	23.68	225 HP		88.14	13.22	101.36	AC/HR	3.50
					Average Rental Rate Per Acre			0.87						Average Custom Rate Per Acre		3.65

* NOTE: IF EQUIPPED WITH MOUNTED HARROWS ADD $0.40 / ACRE

DRAWN EQUIPMENT – GRAIN

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
CULTIVATORS HEAVY DUTY																
18-20 FT	10700	150	9.48	2.35	11.84	11.84	1.78	13.61	11.84			41.35	6.20	47.56		$/AC 5.01
		250	6.06	2.35	8.41	8.41	1.26	9.67	8.41	20.52	9.00	37.93	5.69	43.62	9.5	4.59
		350	4.61	2.35	6.96	6.96	1.04	8.01	6.96	85 HP		36.48	5.47	41.95	AC/HR	4.42
21-22 FT	12700	150	11.25	2.79	14.05	14.05	2.11	16.16	14.05			49.39	7.41	56.80		5.16
		250	7.19	2.79	9.98	9.98	1.50	11.48	9.98	26.34	9.00	45.32	6.80	52.12	11.0	4.74
		350	5.47	2.79	8.26	8.26	1.24	9.50	8.26	110 HP		43.60	6.54	50.14	AC/HR	4.56
23-25 FT	15900	150	14.09	3.50	17.59	17.59	2.64	20.23	17.59			52.93	7.94	60.87		5.07
		250	9.00	3.50	12.50	12.50	1.87	14.37	12.50	26.34	9.00	47.84	7.18	55.01	12.0	4.58
		350	6.85	3.50	10.35	10.35	1.55	11.90	10.35	110 HP		45.69	6.85	52.54	AC/HR	4.38
27 FT	17600	150	15.60	3.87	19.47	19.47	2.92	22.39	19.47			58.86	8.83	67.69		5.01
		250	9.96	3.87	13.83	13.83	2.08	15.91	13.83	30.39	9.00	53.22	7.98	61.20	13.5	4.53
		350	7.58	3.87	11.45	11.45	1.72	13.17	11.45	130 HP		50.84	7.63	58.47	AC/HR	4.33
30-31 FT	19600	150	17.37	4.31	21.68	21.68	3.25	24.93	21.68			64.97	9.75	74.72		4.82
		250	11.09	4.31	15.41	15.41	2.31	17.72	15.41	34.29	9.00	58.69	8.80	67.50	15.5	4.35
		350	8.44	4.31	12.75	12.75	1.91	14.67	12.75	150 HP		56.04	8.41	64.45	AC/HR	4.16
32-33 FT	20200	150	17.90	4.44	22.35	22.35	3.35	25.70	22.35			65.63	9.85	75.48		4.57
		250	11.43	4.44	15.88	15.88	2.38	18.26	15.88	34.29	9.00	59.17	8.87	68.04	16.5	4.12
		350	8.70	4.44	13.14	13.14	1.97	15.11	13.14	150 HP		56.43	8.46	64.90	AC/HR	3.93
34-35 FT	21200	150	18.79	4.66	23.45	23.45	3.52	26.97	23.45			71.32	10.70	82.02		4.69
		250	12.00	4.66	16.66	16.66	2.50	19.16	16.66	38.87	9.00	64.54	9.68	74.22	17.5	4.24
		350	9.13	4.66	13.79	13.79	2.07	15.86	13.79	170 HP		61.67	9.25	70.92	AC/HR	4.05
36-37 FT	22100	150	19.58	4.86	24.45	24.45	3.67	28.11	24.45			72.32	10.85	83.17		4.50
		250	12.51	4.86	17.37	17.37	2.61	19.98	17.37	38.87	9.00	65.24	9.79	75.03	18.5	4.06
		350	9.52	4.86	14.38	14.38	2.16	16.54	14.38	170 HP		62.25	9.34	71.59	AC/HR	3.87
40-41 FT	23800	150	21.09	5.24	26.33	26.33	3.95	30.28	26.33			74.20	11.13	85.33		4.16
		250	13.47	5.24	18.71	18.71	2.81	21.51	18.71	38.87	9.00	66.58	9.99	76.57	20.5	3.73
		350	10.25	5.24	15.49	15.49	2.32	17.81	15.49	170 HP		63.36	9.50	72.86	AC/HR	3.55
45-47 FT	29600	150	26.23	6.51	32.74	32.74	4.91	37.65	32.74			88.14	13.22	101.36		4.41
		250	16.75	6.51	23.27	23.27	3.49	26.76	23.27	46.40	9.00	78.66	11.80	90.46	23.0	3.93
		350	12.75	6.51	19.26	19.26	2.89	22.15	19.26	185 HP		74.66	11.20	85.85	AC/HR	3.73
58-60 FT	33100	150	29.33	7.28	36.61	36.61	5.49	42.11	36.61			101.07	15.16	116.23		3.94
		250	18.73	7.28	26.02	26.02	3.90	29.92	26.02	55.46	9.00	90.47	13.57	104.04	29.5	3.53
		350	14.25	7.28	21.54	21.54	3.23	24.77	21.54	225 HP		85.99	12.90	98.89	AC/HR	3.35
					Average Rental Rate Per Acre			1.10								Average Custom Rate Per Acre 4.22

* NOTE: IF EQUIPPED WITH MOUNTED HARROWS ADD $0.40 / ACRE

DRAWN EQUIPMENT – GRAIN

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
CULTIVATORS, WIDE BLADE																
25 FT	20200	150	17.90	4.44	22.35	22.35	3.35	25.70	22.35			57.69	8.65	66.34		6.63
		250	11.43	4.44	15.88	15.88	2.38	18.26	15.98	26.34	9.00	51.22	7.68	58.90	10.0	5.89
		350	8.70	4.44	13.14	13.14	1.97	15.11	13.14	115 HP		48.48	7.27	55.76	AC/HR	5.58
35 FT	29200	150	25.88	6.42	32.30	32.30	4.85	37.15	32.30			75.59	11.34	86.93		6.21
		250	16.53	6.42	22.95	22.95	3.44	26.39	22.95	34.29	9.00	66.24	9.94	76.18	14.0	5.44
		350	12.58	6.42	19.00	19.00	2.85	21.85	19.00	150 HP		62.29	9.34	71.63	AC/HR	5.12
45 FT	38500	150	34.12	8.47	42.59	42.59	6.39	48.98	42.59			97.98	14.70	112.68		6.26
		250	21.79	8.47	30.26	30.26	4.54	34.80	30.26	46.40	9.00	85.66	12.85	98.51	18.0	5.47
		350	16.58	8.47	25.05	25.05	3.76	28.81	25.05	185 HP		80.45	12.07	92.51	AC/HR	5.14
					Average Rental Rate Per Acre			1.88						Average Custom Rate Per Acre		5.60
DISCERS, W/SEED,FERT.																
																$/AC
15-16 FT	12200	100	16.40	2.44	18.84	18.84	2.83	21.67	18.84			45.61	6.84	52.45		8.07
		150	11.51	2.44	13.95	13.95	2.09	16.04	13.95	17.77	9.00	40.71	6.11	46.82	6.5	7.20
		200	9.04	2.44	11.48	11.48	1.72	13.20	11.48	75 HP		38.24	5.74	43.98	AC/HR	6.77
24 FT	21600	100	29.04	4.32	33.36	33.36	5.00	38.36	33.36			68.70	10.30	79.00		7.90
		150	20.38	4.32	24.70	24.70	3.70	28.40	24.70	26.34	9.00	60.04	9.01	69.04	10.0	6.90
		200	16.00	4.32	20.32	20.32	3.05	23.37	20.32	110 HP		55.66	8.35	64.01	AC/HR	6.40
30-32 FT	25100	100	33.74	5.02	38.76	38.76	5.81	44.58	38.76			82.05	12.31	94.36		7.26
		150	23.68	5.02	28.70	28.70	4.30	33.00	28.70	34.29	9.00	71.99	10.80	82.78	13.0	6.37
		200	18.59	5.02	23.61	23.61	3.54	27.16	23.61	150 HP		66.90	10.04	76.94	AC/HR	5.92
36 FT	32800	100	44.10	6.56	50.66	50.66	7.60	58.26	50.66			98.53	14.78	113.31		7.55
		150	30.94	6.56	37.50	37.50	5.63	43.13	37.50	38.87	9.00	85.37	12.81	98.18	15.0	6.55
		200	24.30	6.56	30.86	30.86	4.63	35.49	30.86	170 HP		78.73	11.81	90.54	AC/HR	6.04
45-48 FT	38200	100	51.36	7.64	59.00	59.00	8.85	67.85	59.00			114.39	17.16	131.55		6.92
		150	36.04	7.64	43.68	43.68	6.55	50.23	43.68	46.40	9.00	99.07	14.86	113.93	19.0	6.00
		200	28.30	7.64	35.94	35.94	5.39	41.33	35.94	185 HP		91.34	13.70	105.04	AC/HR	5.53
					Average Rental Rate Per Acre			2.67						Average Custom Rate Per Acre		6.60

DRAWN EQUIPMENT – GRAIN

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
DISCS, HEAVY BREAKING																
10-12 FT	23000	100	30.92	4.60	35.52	35.52	5.33	40.85	35.52			90.92	13.64	104.55		19.01
		150	21.70	4.60	26.30	26.30	3.94	30.24	26.30	46.40	9.00	81.69	12.25	93.95	5.5	17.08
		200	17.04	4.60	21.64	21.64	3.25	24.89	21.64	185 HP		77.03	11.56	88.59	AC/HR	16.11
14-16 FT	28600	100	38.45	5.72	44.17	44.17	6.63	50.80	44.17			99.57	14.93	114.50		15.27
		150	26.98	5.72	32.70	32.70	4.90	37.60	32.70	46.40	9.00	88.10	13.21	101.31	7.5	13.51
		200	21.19	5.72	26.91	26.91	4.04	30.94	26.91	185 HP		82.30	12.35	94.65	AC/HR	12.62
			Average Rental Rate Per Acre					5.26				Average Custom Rate Per Acre				15.29
DISCS, TANDEM																
12-14 FT	8900	100	11.97	1.78	13.75	13.75	2.06	15.81	13.75			36.64	5.50	42.13		6.48
		150	8.40	1.78	10.18	10.18	1.53	11.70	10.18	13.89	9.00	33.07	4.96	38.03	6.5	5.85
		200	6.59	1.78	8.37	8.37	1.26	9.63	8.37	65 HP		31.27	4.69	35.95	AC/HR	5.53
15-17 FT	10100	100	13.58	2.02	15.60	15.60	2.34	17.94	15.60			45.12	6.77	51.88		6.49
		150	9.53	2.02	11.55	11.55	1.73	13.28	11.55	20.52	9.00	41.07	6.16	47.23	8.0	5.90
		200	7.48	2.02	9.50	9.50	1.43	10.93	9.50	85 HP		39.02	5.85	44.87	AC/HR	5.61
18-19 FT	13800	100	18.55	2.76	21.31	21.31	3.20	24.51	21.31			50.83	7.62	58.46		6.15
		150	13.02	2.76	15.78	15.78	2.37	18.14	15.78	20.52	9.00	45.30	6.79	52.09	9.5	5.48
		200	10.22	2.76	12.98	12.98	1.95	14.93	12.98	85 HP		42.50	6.38	48.88	AC/HR	5.14
20-22 FT	19300	100	25.95	3.86	29.81	29.81	4.47	34.28	29.81			73.10	10.96	84.06		8.01
		150	18.21	3.86	22.07	22.07	3.31	25.38	22.07	34.29	9.00	65.35	9.80	75.16	10.5	7.16
		200	14.30	3.86	18.16	18.16	2.72	20.88	18.16	150 HP		61.45	9.22	70.66	AC/HR	6.73
23-25 FT	22600	100	30.38	4.52	34.90	34.90	5.24	40.14	34.90			82.78	12.42	95.19		7.93
		150	21.32	4.52	25.84	25.84	3.88	29.72	25.84	38.87	9.00	73.71	11.06	84.77	12.0	7.06
		200	16.74	4.52	21.26	21.26	3.19	24.45	21.26	170 HP		69.14	10.37	79.51	AC/HR	6.63
26-28 FT	25500	100	34.28	5.10	39.38	39.38	5.91	45.29	39.38			94.78	14.22	108.99		8.07
		150	24.06	5.10	29.16	29.16	4.37	33.53	29.16	46.40	9.00	84.55	12.68	97.23	13.5	7.20
		200	18.89	5.10	23.99	23.99	3.60	27.59	23.99	185 HP		79.39	11.91	91.30	AC/HR	6.76
29-31 FT	26000	100	34.95	5.20	40.15	40.15	6.02	46.18	40.15			104.61	15.69	120.30		8.02
		150	24.53	5.20	29.73	29.73	4.46	34.19	29.73	55.46	9.00	94.18	14.13	108.31	15.0	7.22
		200	19.26	5.20	24.46	24.46	3.67	28.13	24.46	225 HP		88.92	13.34	102.26	AC/HR	6.82
			Average Rental Rate Per Acre					2.19				Average Custom Rate Per Acre				6.73

DRAWN EQUIPMENT – GRAIN

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
DRILL, AIR HOE																
40-45 FT	67000	60	148.44	16.75	165.19	165.19	24.78	189.96	165.19			220.58	33.09	253.67		14.09
		100	94.81	16.75	111.56	111.56	16.73	128.29	111.56	46.40	9.00	166.95	25.04	191.99	18.0	10.67
		140	72.14	16.75	88.89	88.89	13.33	102.22	88.89	185 HP		144.28	21.64	165.92	AC/HR	9.22
DRILLS DISC PRESS																$/AC
8-10 FT	10500	60	23.26	2.63	25.89	25.89	3.88	29.77	25.89			46.03	6.91	52.94		15.13
		100	14.86	2.63	17.48	17.48	2.62	20.10	17.48	11.15	9.00	37.63	5.64	43.27	3.5	12.36
		140	11.30	2.63	13.93	13.93	2.09	16.02	13.93	55 HP		34.08	5.11	39.19	AC/HR	11.20
14-16 FT	18400	60	40.76	4.60	45.36	45.36	6.80	52.17	45.36			74.88	11.23	86.12		13.25
		100	26.04	4.60	30.64	30.64	4.60	35.23	30.64	20.52	9.00	60.15	9.02	69.18	6.5	10.64
		140	19.81	4.60	24.41	24.41	3.66	28.07	24.41	85 HP		53.93	8.09	62.02	AC/HR	9.54
24 FT	31100	60	68.90	7.78	76.68	76.68	11.50	88.18	76.68			112.02	16.80	128.82		12.88
		100	44.01	7.78	51.78	51.78	7.77	59.55	51.78	26.34	9.00	87.12	13.07	100.19	10.0	10.02
		140	33.48	7.78	41.26	41.26	6.19	47.45	41.26	110 HP		76.60	11.49	88.09	AC/HR	8.81
28-30 FT	41000	60	90.83	10.25	101.08	101.08	15.16	116.25	101.08			148.96	22.34	171.30		14.28
		100	58.02	10.25	68.27	68.27	10.24	78.50	68.27	38.87	9.00	116.14	17.42	133.56	12.0	11.13
		140	44.14	10.25	54.39	54.39	8.16	62.55	54.39	150 HP		102.27	15.34	117.61	AC/HR	9.80
40-42 FT	55000	60	121.85	13.75	135.60	135.60	20.34	155.94	135.60			191.00	28.65	219.65		12.92
		100	77.83	13.75	91.58	91.58	13.74	105.31	91.58	46.40	9.00	146.97	22.05	169.02	17.0	9.94
		140	59.22	13.75	72.97	72.97	10.94	83.91	72.97	185 HP		128.36	19.25	147.62	AC/HR	8.68
					Average Rental Rate Per Acre			5.97						Average Custom Rate Per Acre		10.82
DRILLS HOE PRESS																
7-10 FT	10100	60	22.38	2.53	24.90	24.90	3.74	28.64	24.90			47.79	7.17	54.96		15.70
		100	14.29	2.53	16.82	16.82	2.52	19.34	16.82	13.89	9.00	39.71	5.96	45.66	3.5	13.05
		140	10.87	2.53	13.40	13.40	2.01	15.41	13.40	65 HP		36.29	5.44	41.73	AC/HR	11.92
14-16 FT	16300	60	36.11	4.08	40.19	40.19	6.03	46.22	40.19			66.95	10.04	77.00		11.85
		100	23.06	4.08	27.14	27.14	4.07	31.21	27.14	17.77	9.00	53.90	8.09	61.99	6.5	9.54
		140	17.55	4.08	21.62	21.62	3.24	24.87	21.62	75 HP		48.39	7.26	55.65	AC/HR	8.56
20-21 FT	24300	60	53.84	6.08	59.91	59.91	8.99	68.90	59.91			95.25	14.29	109.54		12.89
		100	34.38	6.08	40.46	40.46	6.07	46.53	40.46	26.34	9.00	75.80	11.37	87.17	8.5	10.26
		140	26.16	6.08	32.24	32.24	4.84	37.07	32.24	110 HP		67.58	10.14	77.71	AC/HR	9.14
28-30 FT	38300	60	84.85	9.58	94.43	94.43	14.16	108.59	94.43			137.72	20.66	158.37		13.20
		100	54.19	9.58	63.77	63.77	9.57	73.33	63.77	34.29	9.00	107.06	16.06	123.12	12.0	10.26
		140	41.24	9.58	50.81	50.81	7.62	58.43	50.81	150 HP		94.10	14.11	108.21	AC/HR	9.02
40-42 FT	53900	60	119.41	13.48	132.89	132.89	19.93	152.82	132.89			188.28	28.24	216.53		12.74
		100	76.27	13.48	89.74	89.74	13.46	103.21	89.74	46.40	9.00	145.14	21.77	166.91	17.0	9.82
		140	58.03	13.48	71.51	71.51	10.73	82.23	71.51	185 HP		126.90	19.04	145.94	AC/HR	8.58
					Average Rental Rate Per Acre			5.60						Average Custom Rate Per Acre		10.58
DRILLS NO TILL DISC																$/AC
10 FT	20700	60	45.86	5.18	51.04	51.04	7.66	58.69	51.04			80.55	12.08	92.64		23.16
		100	29.29	5.18	34.47	34.47	5.17	39.64	34.47	20.52	9.00	63.98	9.60	73.58	4.0	18.40
		140	22.29	5.18	27.46	27.46	4.12	31.58	27.46	85 HP		56.98	8.55	65.53	AC/HR	16.38
20 FT	43500	60	96.37	10.88	107.25	107.25	16.09	123.34	107.25			155.12	23.27	178.39		20.99
		100	61.55	10.88	72.43	72.43	10.86	83.29	72.43	38.87	9.00	120.30	18.05	138.35	8.5	16.28
		140	46.83	10.88	57.71	57.71	8.66	66.37	57.71	170 HP		105.58	15.84	121.42	AC/HR	14.28
30 FT	60600	60	134.26	15.15	149.41	149.41	22.41	171.82	149.41			213.86	32.08	245.94		19.68
		100	85.75	15.15	100.90	100.90	15.13	116.03	100.90	55.46	9.00	165.35	24.80	190.16	12.5	15.21
		140	65.24	15.15	80.39	80.39	12.06	92.45	80.39	225 HP		144.85	21.73	166.58	AC/HR	13.33
					Average Rental Rate Per Acre			9.66						Average Custom Rate Per Acre		16.63

NOTE: Work rates may require adjustment for heavy straw conditions or high fertilizer rates.

DRAWN EQUIPMENT – GRAIN

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
DRILLS NO TILL HOE																$/AC
16 FT	23300	60	51.62	5.83	57.45	57.45	8.62	66.06	57.45			96.83	14.53	111.36		17.13
		100	32.97	5.83	38.79	38.79	5.82	44.61	38.79	30.39	9.00	78.18	11.73	89.91	6.5	13.83
		140	25.09	5.83	30.91	30.91	4.64	35.55	30.91	130 HP		70.30	10.54	80.84	AC/HR	12.44
24 FT	37700	60	83.52	9.43	92.95	92.95	13.94	106.89	92.95			146.13	21.92	168.05		16.80
		100	53.35	9.43	62.77	62.77	9.42	72.19	62.77	44.18	9.00	115.95	17.39	133.34	10.0	13.33
		140	40.59	9.43	50.01	50.01	7.50	57.52	50.01	190 HP		103.20	15.48	118.67	AC/HR	11.87
32 FT	47200	60	104.57	11.80	116.37	116.37	17.46	133.83	116.37			180.83	27.12	207.95		15.40
		100	66.79	11.80	78.59	78.59	11.79	90.38	78.59	55.46	9.00	143.04	21.46	164.50	13.5	12.19
		140	50.82	11.80	62.62	62.62	9.39	72.01	62.62	225 HP		127.07	19.06	146.13	AC/HR	10.82
					Average Rental Rate Per Acre			6.93						Average Custom Rate Per Acre		13.12
NOTE: Work rates may require adjustment for heavy straw conditions or high fertilizer rates.																
FERTILIZER BULK SPREADERS																$/AC
5 TON	5800	60	13.32	2.18	15.49	15.49	2.32	17.81	15.49			45.01	6.75	51.76		2.16
		80	10.26	2.18	12.43	12.43	1.87	14.30	12.43	20.52	9.00	41.95	6.29	48.24	24.0	2.01
		100	8.46	2.18	10.63	10.63	1.59	12.23	10.63	85 HP		40.15	6.02	46.17	AC/HR	1.92
					Average Rental Rate Per Acre			0.60						Average Custom Rate Per Acre		2.01
HARROW DRBR HYD W/HARROWS																$/AC
40 FT	5400	60	11.47	1.46	12.93	12.93	1.94	14.86	12.93			35.82	5.37	41.19		2.06
		100	7.26	1.46	8.72	8.72	1.31	10.03	8.72	13.89	9.00	31.61	4.74	36.35	20.0	1.82
		140	5.46	1.46	6.92	6.92	1.04	7.95	6.92	65 HP		29.81	4.47	34.28	AC/HR	1.71
50 FT	6340	60	13.46	1.71	15.18	15.18	2.28	17.45	15.18			44.69	6.70	51.40		2.06
		100	8.52	1.71	10.24	10.24	1.54	11.77	10.24	20.52	9.00	39.75	5.96	45.72	25.0	1.83
		140	6.41	1.71	8.12	8.12	1.22	9.34	8.12	85 HP		37.64	5.65	43.28	AC/HR	1.73
60 FT	7370	60	15.65	1.99	17.64	17.64	2.65	20.29	17.64			49.40	7.41	56.81		1.89
		100	9.91	1.99	11.90	11.90	1.78	13.68	11.90	22.76	9.00	43.65	6.55	50.20	30.0	1.67
		140	7.45	1.99	9.44	9.44	1.42	10.85	9.44	95 HP		41.19	6.18	47.37	AC/HR	1.58
80 FT	10300	60	21.87	2.78	24.65	24.65	3.70	28.35	24.65			59.99	9.00	68.99		1.72
		100	13.85	2.78	16.63	16.63	2.49	19.12	16.63	26.34	9.00	51.97	7.80	59.76	40.0	1.49
		140	10.41	2.78	13.19	13.19	1.98	15.17	13.19	110 HP		48.53	7.28	55.81	AC/HR	1.40
					Average Rental Rate Per Acre			0.48						Average Custom Rate Per Acre		1.70
HARROW PACKERS																$/AC
30 FT	11100	60	23.57	3.00	26.57	26.57	3.99	30.55	26.57			56.09	8.41	64.50		4.30
		100	14.92	3.00	17.92	17.92	2.69	20.61	17.92	20.52	9.00	47.44	7.12	54.55	15.0	3.64
		140	11.22	3.00	14.22	14.22	2.13	16.35	14.22	85 HP		43.73	6.56	50.29	AC/HR	3.35
50 FT	15100	60	32.07	4.08	36.14	36.14	5.42	41.57	36.14			71.48	10.72	82.21		3.29
		100	20.30	4.08	24.38	24.38	3.66	28.03	24.38	26.34	9.00	59.72	8.96	68.68	25.0	2.75
		140	15.26	4.08	19.34	19.34	2.90	22.24	19.34	110 HP		54.68	8.20	62.88	AC/HR	2.52
60 FT	17500	60	37.16	4.73	41.89	41.89	6.28	48.17	41.89			85.18	12.78	97.95		3.27
		100	23.53	4.73	28.25	28.25	4.24	32.49	28.25	34.29	9.00	71.54	10.73	82.27	30.0	2.74
		140	17.69	4.73	22.41	22.41	3.36	25.77	22.41	150 HP		65.70	9.86	75.56	AC/HR	2.52
70 FT	20000	60	42.47	5.40	47.87	47.87	7.18	55.05	47.87			95.75	14.36	110.11		3.15
		100	26.89	5.40	32.29	32.29	4.84	37.13	32.29	38.87	9.00	80.16	12.02	92.19	35.0	2.63
		140	20.21	5.40	25.61	25.61	3.84	29.46	25.61	170 HP		73.49	11.02	84.51	AC/HR	2.41
80 FT	24000	60	50.97	6.48	57.45	57.45	8.62	66.06	57.45			110.63	16.59	127.22		3.18
		100	32.27	6.48	38.75	38.75	5.81	44.56	38.75	44.18	9.00	91.93	13.79	105.72	40.0	2.64
		140	24.26	6.48	30.74	30.74	4.61	35.35	30.74	180 HP		83.92	12.59	96.51	AC/HR	2.41
					Average Rental Rate Per Acre			1.15						Average Custom Rate Per Acre		2.88

DRAWN EQUIPMENT – GRAIN

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
PLOWS																$/AC
7.5 FT	9700	100	12.89	2.59	15.48	15.48	2.32	17.80	15.48			38.37	5.76	44.13		14.71
5-FURROW		150	9.15	2.59	11.74	11.74	1.76	13.50	11.74	13.89	9.00	34.63	5.19	39.82	3.0	13.27
		200	7.31	2.59	9.90	9.90	1.48	11.38	9.90	65 HP		32.79	4.92	37.71	AC/HR	12.57
9 FT	12460	100	16.56	3.32	19.89	19.89	2.98	22.87	19.89			51.64	7.75	59.39		16.97
6-FURROW		150	11.75	3.32	15.08	15.08	2.26	17.34	15.08	22.76	9.00	46.83	7.02	53.86	3.5	15.39
		200	9.39	3.32	12.71	12.71	1.91	14.62	12.71	95 HP		44.47	6.67	51.14	AC/HR	14.61
12 FT	18100	100	24.06	4.83	28.89	28.89	4.33	33.22	28.89			68.27	10.24	78.52		15.70
8-FURROW		150	17.07	4.83	21.90	21.90	3.29	25.19	21.90	30.39	9.00	61.29	9.19	70.48	5.0	14.10
		200	13.64	4.83	18.47	18.47	2.77	21.24	18.47	120 HP		57.86	8.68	66.53	AC/HR	13.31
18 FT	26000	100	34.56	6.93	41.49	41.49	6.22	47.72	41.49			89.37	13.41	102.77		14.68
12 FURROW		150	24.53	6.93	31.46	31.46	4.72	36.18	31.46	38.87	9.00	79.33	11.90	91.23	7.0	13.03
		200	19.60	6.93	26.53	26.53	3.98	30.51	26.53	160 HP		74.40	11.16	85.56	AC/HR	12.22
					Average Rental Rate Per Acre			4.91						Average Custom Rate Per Acre		13.95
PNEUMATIC GRAIN MOVERS																$/BU
1000-1500	9820	25	51.65	3.93	55.58	55.58	8.34	63.92	55.58			82.35	12.35	94.70		0.08
BUS/HR		50	27.79	3.93	31.72	31.72	4.76	36.48	31.72	17.77	9.00	58.48	8.77	67.26	1,250.0	0.05
		75	19.74	3.93	23.66	23.66	3.55	27.21	23.66	75 HP		50.43	7.56	57.99	BU/HR	0.05
1500-1999	10600	25	55.76	4.24	60.00	60.00	9.00	69.00	60.00			91.75	13.76	105.51		0.06
BUS/HR		50	30.00	4.24	34.24	34.24	5.14	39.37	34.24	22.76	9.00	65.99	9.90	75.89	1,750.0	0.04
		75	21.30	4.24	25.54	25.54	3.83	29.37	25.54	95 HP		57.30	8.59	65.89	BU/HR	0.04
2000-2500	13300	25	69.96	5.32	75.28	75.28	11.29	86.57	75.28			114.67	17.20	131.87		0.06
BUS/HR		50	37.64	5.32	42.96	42.96	6.44	49.40	42.96	30.39	9.00	82.35	12.35	94.70	2,250.0	0.04
		75	26.73	5.32	32.05	32.05	4.81	36.86	32.05	130 HP		71.44	10.72	82.15	BU/HR	0.04
					Average Rental Rate Per Bus.			0.02						Average Custom Rate Per Bus.		0.05
RODWEEDERS																
24 FT	4100	60	9.08	1.03	10.11	10.11	1.52	11.62	10.11			36.87	5.53	42.40		3.53
		100	5.80	1.03	6.83	6.83	1.02	7.85	6.83	17.77	9.00	33.59	5.04	38.63	12.0	3.22
		140	4.41	1.03	5.44	5.44	0.82	6.26	5.44	75 HP		32.20	4.83	37.04	AC/HR	3.09
28-30 FT	7100	60	15.73	1.78	17.50	17.50	2.63	20.13	17.50			49.26	7.39	56.65		3.91
		100	10.05	1.78	11.82	11.82	1.77	13.59	11.82	22.76	9.00	43.58	6.54	50.11	14.5	3.46
		140	7.64	1.78	9.42	9.42	1.41	10.83	9.42	95 HP		41.18	6.18	47.35	AC/HR	3.27
36 FT	8000	60	17.72	2.00	19.72	19.72	2.96	22.68	19.72			55.06	8.26	63.32		3.52
		100	11.32	2.00	13.32	13.32	2.00	15.32	13.32	26.34	9.00	48.66	7.30	55.96	18.0	3.11
		140	8.61	2.00	10.61	10.61	1.59	12.21	10.61	120 HP		45.95	6.89	52.85	AC/HR	2.94
48 FT	11900	60	26.36	2.98	29.34	29.34	4.40	33.74	29.34			72.63	10.89	83.52		3.48
		100	16.84	2.98	19.81	19.81	2.97	22.79	19.81	34.29	9.00	63.10	9.47	72.57	24.0	3.02
		140	12.81	2.98	15.79	15.79	2.37	18.16	15.79	150 HP		59.08	8.86	67.94	AC/HR	2.83
56 FT	17600	60	38.99	4.40	43.39	43.39	6.51	49.90	43.39			91.27	13.69	104.96		3.75
		100	24.90	4.40	29.30	29.30	4.40	33.70	29.30	38.87	9.00	77.18	11.58	88.75	28.0	3.17
		140	18.95	4.40	23.35	23.35	3.50	26.85	23.35	170 HP		71.22	10.68	81.91	AC/HR	2.93
64 FT	19000	60	42.09	4.75	46.84	46.84	7.03	53.87	46.84			102.24	15.34	117.58		3.67
		100	26.89	4.75	31.64	31.64	4.75	36.38	31.64	46.40	9.00	87.03	13.05	100.09	32.0	3.13
		140	20.46	4.75	25.21	25.21	3.78	28.99	25.21	185 HP		80.60	12.09	92.69	AC/HR	2.90
					Average Rental Rate Per Acre			0.96						Average Custom Rate Per Acre		3.18

DRAWN EQUIPMENT – GRAIN

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
RODWEEDERS WITH MULTIPLEX OR VIBRATILLER																
24 FT	5300	60	11.74	1.33	13.07	13.07	1.96	15.03	13.07							$/AC
		100	7.50	1.33	8.82	8.82	1.32	10.15	8.82	17.77	9.00	39.83	5.97	45.81		3.82
		140	5.71	1.33	7.03	7.03	1.05	8.09	7.03	75 HP		35.59	5.34	40.93	12.0	3.41
												33.80	5.07	38.87	AC/HR	3.24
28-30 FT	8300	60	18.39	2.08	20.46	20.46	3.07	23.53	20.46							
		100	11.74	2.08	13.82	13.82	2.07	15.89	13.82	22.76	9.00	52.22	7.83	60.05		4.14
		140	8.94	2.08	11.01	11.01	1.65	12.66	11.01	95 HP		45.58	6.84	52.41	14.5	3.61
												42.77	6.42	49.18	AC/HR	3.39
36 FT	9400	60	20.83	2.35	23.18	23.18	3.48	26.65	23.18							
		100	13.30	2.35	15.65	15.65	2.35	18.00	15.65	26.34	9.00	58.52	8.78	67.29		3.74
		140	10.12	2.35	12.47	12.47	1.87	14.34	12.47	120 HP		50.99	7.65	58.64	18.0	3.26
												47.81	7.17	54.98	AC/HR	3.05
48 FT	13300	60	29.47	3.33	32.79	32.79	4.92	37.71	32.79							
		100	18.82	3.33	22.14	22.14	3.32	25.47	22.14	34.29	9.00	76.08	11.41	87.49		3.65
		140	14.32	3.33	17.64	17.64	2.65	20.29	17.64	150 HP		65.43	9.81	75.25	24.0	3.14
												60.93	9.14	70.07	AC/HR	2.92
56 FT	19000	60	42.09	4.75	46.84	46.84	7.03	53.87	46.84							
		100	26.89	4.75	31.64	31.64	4.75	36.38	31.64	38.87	9.00	94.72	14.21	108.93		3.89
		140	20.46	4.75	25.21	25.21	3.78	28.99	25.21	170 HP		79.51	11.93	91.43	28.0	3.27
												73.08	10.96	84.04	AC/HR	3.00
64 FT	20500	60	45.42	5.13	50.54	50.54	7.58	58.12	50.54							
		100	29.01	5.13	34.13	34.13	5.12	39.25	34.13	46.40	9.00	105.94	15.89	121.83		3.81
		140	22.07	5.13	27.20	27.20	4.08	31.28	27.20	185 HP		89.53	13.43	102.96	32.0	3.22
												82.59	12.39	94.98	AC/HR	2.97
				Average Rental Rate Per Acre				1.09				Average Custom Rate Per Acre				3.32
* NOTE IF EQUIPPED WITH MOUNTED HARROWS ADD $0.40 / AC																
ROCK PICKER ROCK RAKE COMBINATIONS																
8 FT HYD	12500	60	34.02	3.91	37.93	37.93	5.69	43.62	37.93							
		80	26.80	3.91	30.70	30.70	4.61	35.31	30.70	22.76	9.00	69.69	10.45	80.14		
		100	22.69	3.91	26.59	26.59	3.99	30.58	26.59	95 HP		62.46	9.37	71.83		
												58.35	8.75	67.10		
20 FT HYD	16700	60	45.46	5.22	50.68	50.68	7.60	58.28	50.68							
		80	35.80	5.22	41.02	41.02	6.15	47.17	41.02	22.76	9.00	82.43	12.36	94.80		
		100	30.31	5.22	35.53	35.53	5.33	40.86	35.53	95 HP		72.78	10.92	83.69		
												67.29	10.09	77.38		
ROCK PICKERS																
FORK TYPE	3850	60	10.48	1.20	11.68	11.68	1.75	13.44	11.68							
		80	8.25	1.20	9.46	9.46	1.42	10.88	9.46	11.15	9.00	31.83	4.77	36.60		
		100	6.99	1.20	8.19	8.19	1.23	9.42	8.19	55 HP		29.60	4.44	34.04		
3 PADDLE TYPE												28.34	4.25	32.59		
HYD (3 PADDLE)	8330	60	22.67	2.60	25.28	25.28	3.79	29.07	25.28							
		80	17.86	2.60	20.46	20.46	3.07	23.53	20.46	17.77	9.00	52.04	7.81	59.85		
		100	15.12	2.60	17.72	17.72	2.66	20.38	17.72	75 HP		47.23	7.08	54.31		
												44.49	6.67	51.16		
PTO (3 PADDLE)	9620	60	26.19	3.01	29.19	29.19	4.38	33.57	29.19							
		80	20.62	3.01	23.63	23.63	3.54	27.17	23.63	17.77	9.00	55.96	8.39	64.35		
		100	17.46	3.01	20.47	20.47	3.07	23.54	20.47	75 HP		50.39	7.54	57.95		
												47.23	7.08	54.32		
GROUND (3 PADDLE)	7290	60	19.84	2.28	22.12	22.12	3.32	25.44	22.12							
		80	15.63	2.28	17.91	17.91	2.69	20.59	17.91	17.77	9.00	48.89	7.33	56.22		
		100	13.23	2.28	15.51	15.51	2.33	17.84	15.51	75 HP		44.67	6.70	51.37		
												42.27	6.34	48.62		
ROCK RAKES																
12-14 FT	7000	60	19.05	2.19	21.24	21.24	3.19	24.43	21.24							
		80	15.01	2.19	17.19	17.19	2.58	19.77	17.19	13.89	9.00	44.13	6.62	50.75		
		100	12.71	2.19	14.89	14.89	2.23	17.13	14.89	65 HP		40.09	6.01	46.10		
												37.78	5.67	43.45		
20 FT	7400	60	20.14	2.31	22.46	22.46	3.37	25.82	22.46							
		80	15.86	2.31	18.18	18.18	2.73	20.90	18.18	13.89	9.00	45.35	6.80	52.15		
		100	13.43	2.31	15.74	15.74	2.36	18.11	15.74	65 HP		41.07	6.16	47.23		
												38.64	5.80	44.43		

DRAWN EQUIPMENT – GRAIN

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
SPRAYERS PTO																$/AC
400-500 GAL	7130	30	31.59	2.85	34.44	34.44	5.17	39.61	34.44			57.34	8.60	65.94		2.44
60-70 FT		50	20.18	2.85	23.03	23.03	3.45	26.48	23.03	13.89	9.00	45.92	6.89	52.81	27.0	1.96
		70	15.35	2.85	18.21	18.21	2.73	20.94	18.21	65 HP		41.10	6.16	47.26	AC/HR	1.75
700-800 GAL	10900	30	48.30	4.36	52.66	52.66	7.90	60.56	52.66			82.18	12.33	94.50		2.70
80-90 FT		50	30.85	4.36	35.21	35.21	5.28	40.49	35.21	20.52	9.00	64.73	9.71	74.43	35.0	2.13
		70	23.47	4.36	27.83	27.83	4.17	32.01	27.83	85 HP		57.35	8.60	65.95	AC/HR	1.88
700-800 GAL	13100	30	58.05	5.24	63.29	63.29	9.49	72.78	63.29			92.80	13.92	106.72		2.57
91-105 FT		50	37.07	5.24	42.31	42.31	6.35	48.66	42.31	20.52	9.00	71.83	10.77	82.61	41.5	1.99
		70	28.21	5.24	33.45	33.45	5.02	38.47	33.45	85 HP		62.97	9.44	72.41	AC/HR	1.74
					Average Rental Rate Per Acre			1.10						Average Custom Rate Per Acre		2.03
NOTE: To include the cost of hauling water to the field add $0.56/ac.(assume 7.5 gal/ac, 12 mile haul and $6.00 water cost)																
SPRAYERS TRUCK MOUNT																
250 GAL	5280	30	23.40	2.11	25.51	25.51	3.83	29.33	25.51			57.12	8.57	65.69		1.60
40-42 FT		50	14.94	2.11	17.05	17.05	2.56	19.61	17.05	22.61	9.00	48.66	7.30	55.96	41.0	1.36
		70	11.37	2.11	13.48	13.48	2.02	15.50	13.48	3/4 TON		45.09	6.76	51.86	AC/HR	1.26
325-450 GAL	6080	30	26.94	2.43	29.37	29.37	4.41	33.78	29.37			60.98	9.15	70.13		1.40
50 FT		50	17.21	2.43	19.64	19.64	2.95	22.58	19.64	22.61	9.00	51.25	7.69	58.94	50.0	1.18
		70	13.09	2.43	15.52	15.52	2.33	17.85	15.52	3/4 TON		47.13	7.07	54.20	AC/HR	1.08
NOTE: To include the cost of hauling water to the field add $0.56/ac.(assume 7.5 gal/ac, 12 mile haul & $6.00 water cost)																
SWATHERS PTO STANDARD																$/AC
20-21 FT	12900	60	28.58	3.74	32.32	32.32	4.85	37.17	32.32			52.47	7.87	60.34		6.35
		100	18.25	3.74	21.99	21.99	3.30	25.29	21.99	11.15	9.00	42.14	6.32	48.46	9.5	5.10
		140	13.89	3.74	17.63	17.63	2.64	20.27	17.63	55 HP		37.78	5.67	43.44	AC/HR	4.57
24-25 FT	13800	60	30.57	4.00	34.58	34.58	5.19	39.76	34.58			54.72	8.21	62.93		5.47
		100	19.53	4.00	23.53	23.53	3.53	27.06	23.53	11.15	9.00	43.68	6.55	50.23	11.5	4.37
		140	14.86	4.00	18.86	18.86	2.83	21.69	18.86	55 HP		39.01	5.85	44.86	AC/HR	3.90
30 FT	15300	60	33.90	4.44	38.33	38.33	5.75	44.08	38.33			61.23	9.18	70.41		5.03
		100	21.65	4.44	26.09	26.09	3.91	30.00	26.09	13.89	9.00	48.98	7.35	56.32	14.0	4.02
		140	16.47	4.44	20.91	20.91	3.14	24.05	20.91	65 HP		43.80	6.57	50.37	AC/HR	3.60
36 FT	17400	60	38.55	5.05	43.60	43.60	6.54	50.13	43.60			70.36	10.55	80.91		4.90
		100	24.62	5.05	29.67	29.67	4.45	34.12	29.67	17.77	9.00	56.43	8.46	64.90	16.5	3.93
		140	18.73	5.05	23.78	23.78	3.57	27.35	23.78	75 HP		50.54	7.58	58.13	AC/HR	3.52
					Average Rental Rate Per Acre			2.31						Average Custom Rate Per Acre		4.36
NOTE: To include a hay conditioner add $11.39/hour to the custom rate/hour and divide by the number of acres/hour.																
SWATHERS PTO DOUBLE SWATH																$/AC
40-42 FT	30000	60	66.46	8.70	75.16	75.16	11.27	86.44	75.16			106.92	16.04	122.96		7.23
		100	42.45	8.70	51.15	51.15	7.67	58.82	51.15	22.76	9.00	82.91	12.44	95.34	17.0	5.61
		140	32.30	8.70	41.00	41.00	6.15	47.15	41.00	95 HP		72.76	10.91	83.67	AC/HR	4.92
50 FT	33600	60	74.44	9.74	84.18	84.18	12.63	96.81	84.18			119.52	17.93	137.45		7.23
		100	47.54	9.74	57.29	57.29	8.59	65.88	57.29	26.34	9.00	92.63	13.89	106.52	19.0	5.61
		140	36.18	9.74	45.92	45.92	6.89	52.81	45.92	110 HP		81.26	12.19	93.45	AC/HR	4.92
					Average Rental Rate Per Acre			3.46						Average Custom Rate Per Acre		5.61

DRAWN EQUIPMENT – LIVESTOCK AND FORAGE

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
BALE MOVERS																
LARGE ROUND																
5 BALES	2160	40	7.75	0.68	8.43	8.43	1.26	9.69	8.43			31.32	4.70	36.02		
		80	4.23	0.68	4.90	4.90	0.74	5.64	4.90	13.89	9.00	27.79	4.17	31.96		
		120	3.01	0.68	3.68	3.68	0.55	4.24	3.68	65 HP		26.58	3.99	30.56		
7-8 BALES	7630	40	27.39	2.38	29.77	29.77	4.47	34.24	29.77			56.54	8.48	65.02		
		80	14.93	2.38	17.31	17.31	2.60	19.91	17.31	17.77	9.00	44.08	6.61	50.69		
		120	10.63	2.38	13.02	13.02	1.95	14.97	13.02	75 HP		39.78	5.97	45.75		
14 BALES	14300	40	51.33	4.47	55.79	55.79	8.37	64.16	55.79			85.31	12.80	98.11		
		80	27.97	4.47	32.44	32.44	4.87	37.31	32.44	20.52	9.00	61.96	9.29	71.26		
		120	19.93	4.47	24.40	24.40	3.66	28.05	24.40	85 HP		53.91	8.09	62.00		
BALERS, LARGE ROUND																
(excl. twine)																
UNDER	13000	30	62.21	3.25	65.46	65.46	9.82	75.28	65.46			88.35	13.25	101.61		$/BALE
55 cu. ft.		60	33.91	3.25	37.16	37.16	5.57	42.73	37.16	13.89	9.00	60.05	9.01	69.06	12.0	5.75
4X4 FT		90	24.15	3.25	27.40	27.40	4.11	31.51	27.40	65 HP		50.29	7.54	57.84	BLS/HR	4.82
55-89 cu ft	16200	30	77.53	4.05	81.58	81.58	12.24	93.81	81.58			104.47	15.67	120.14		12.01
4X5 FT		60	42.26	4.05	46.31	46.31	6.95	53.25	46.31	13.89	9.00	69.20	10.38	79.58	10.0	7.96
or 4X6 FT		90	30.10	4.05	34.15	34.15	5.12	39.27	34.15	65 HP		57.04	8.56	65.60	BLS/HR	6.56
90-124 cuft	20000	30	95.71	5.00	100.71	100.71	15.11	115.82	100.71			130.23	19.53	149.77		18.72
5X6 FT		60	52.17	5.00	57.17	57.17	8.58	65.74	57.17	20.52	9.00	86.68	13.00	99.69	8.0	12.46
		90	37.16	5.00	42.16	42.16	6.32	48.48	42.16	85 HP		71.68	10.75	82.43	BLS/HR	10.30
BALERS, STANDARD (excl. twine)																
(bale chamber width X height)																
LESS 2 SQFT	13500	40	52.82	3.38	56.19	56.19	8.43	64.62	56.19			79.09	11.86	90.95		$/BALE
		80	28.94	3.38	32.32	32.32	4.85	37.16	32.32	13.89	9.00	55.21	8.28	63.49	175.0	0.52
		120	21.08	3.38	24.46	24.46	3.67	28.12	24.46	65 HP		47.35	7.10	54.45	BLS/HR	0.36
2 - 4 SQ FT	24500	40	95.86	6.13	101.98	101.98	15.30	117.28	101.98			131.50	19.72	151.22		0.31
		80	52.52	6.13	58.65	58.65	8.80	67.44	58.65	20.52	9.00	88.16	13.22	101.39	175.0	0.86
		120	38.26	6.13	44.38	44.38	6.66	51.04	44.38	85 HP		73.90	11.09	84.99	BLS/HR	0.58
																0.49
BALE WAGONS																
PTO																$/BALE
83 BALE	16800	60	37.22	4.87	42.09	42.09	6.31	48.41	42.09			64.98	9.75	74.73		0.53
		100	23.77	4.87	28.64	28.64	4.30	32.94	28.64	13.89	9.00	51.54	7.73	59.27	140.0	0.42
		140	18.09	4.87	22.96	22.96	3.44	26.40	22.96	65 HP		45.85	6.88	52.73	BLS/HR	0.38
104 BALE	30400	60	67.35	8.82	76.17	76.17	11.42	87.59	76.17			105.68	15.85	121.54		0.58
		100	43.02	8.82	51.83	51.83	7.77	59.61	51.83	20.52	9.00	81.35	12.20	93.55	208.0	0.45
		140	32.73	8.82	41.55	41.55	6.23	47.78	41.55	85 HP		71.06	10.66	81.72	BLS/HR	0.39
				Average Rental Rate Per Bale				0.26				Average Custom Rate Per Bale				0.44
FORAGE HARVESTERS																
SMALL	15600	40	55.99	4.88	60.87	60.87	9.13	70.00	60.87			100.25	15.04	115.29		
		80	30.52	4.88	35.39	35.39	5.31	40.70	35.39	30.39	9.00	74.78	11.22	86.00		
		120	21.74	4.88	26.61	26.61	3.99	30.60	26.61	130 HP		66.00	9.90	75.90		
MEDIUM	21300	40	76.45	6.66	83.11	83.11	12.47	95.57	83.11			126.40	18.96	145.35		
		80	41.67	6.66	48.32	48.32	7.25	55.57	48.32	34.29	9.00	91.61	13.74	105.35		
		120	29.68	6.66	36.34	36.34	5.45	41.79	36.34	150 HP		79.63	11.94	91.57		
LARGE	25000	40	89.73	7.81	97.54	97.54	14.63	112.17	97.54			145.42	21.81	167.23		
		80	48.91	7.81	56.72	56.72	8.51	65.23	56.72	38.87	9.00	104.59	15.69	120.28		
		120	34.84	7.81	42.65	42.65	6.40	49.05	42.65	170 HP		90.52	13.58	104.10		

DRAWN EQUIPMENT – LIVESTOCK AND FORAGE

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	CUSTOM RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC CUSTOM RATE
GRINDER MIXERS																
80-100 BUS	10300	100	15.81	1.65	17.46	17.46	2.62	20.08	17.46			46.98	7.05	54.02		
		200	8.83	1.65	10.48	10.48	1.57	12.05	10.48	20.52	9.00	40.00	6.00	46.00		
		300	6.43	1.65	8.08	8.08	1.21	9.29	8.08	85 HP		37.60	5.64	43.24		
120-150 BUS	17900	100	27.48	2.86	30.34	30.34	4.55	34.89	30.34			65.68	9.85	75.53		
		200	15.35	2.86	18.21	18.21	2.73	20.95	18.21	26.34	9.00	53.55	8.03	61.59		
		300	11.18	2.86	14.04	14.04	2.11	16.15	14.04	110 HP		49.38	7.41	56.79		
HAY RAKES																$/AC
8.5 FT	4050	50	12.21	1.16	13.37	13.37	2.00	15.37	13.37			31.18	4.68	35.86		7.97
PARALLEL		70	9.05	1.16	10.21	10.21	1.53	11.74	10.21	8.81	9.00	28.03	4.20	32.23	4.5	7.16
BAR		90	7.35	1.16	8.51	8.51	1.28	9.78	8.51	35 HP		26.32	3.95	30.27	AC/HR	6.73
9.5 FT	4900	50	14.77	1.40	16.17	16.17	2.43	18.60	16.17			33.98	5.10	39.08		7.82
PARALLEL		70	10.96	1.40	12.36	12.36	1.85	14.21	12.36	8.81	9.00	30.17	4.53	34.69	5.0	6.94
BAR		90	8.89	1.40	10.29	10.29	1.54	11.84	10.29	35 HP		28.11	4.22	32.32	AC/HR	6.46
9 FT	2980	50	8.98	0.85	9.83	9.83	1.48	11.31	9.83			27.65	4.15	31.80		6.36
WHEEL		70	6.66	0.85	7.51	7.51	1.13	8.64	7.51	8.81	9.00	25.33	3.80	29.13	5.0	5.83
TYPE		90	5.41	0.85	6.26	6.26	0.94	7.20	6.26	35 HP		24.07	3.61	27.68	AC/HR	5.54
15 FT	3670	50	11.06	1.05	12.11	12.11	1.82	13.93	12.11			30.71	4.61	35.32		4.16
WHEEL		70	8.21	1.05	9.25	9.25	1.39	10.64	9.25	9.60	9.00	27.86	4.18	32.03	8.5	3.77
TYPE		90	6.66	1.05	7.71	7.71	1.16	8.86	7.71	45 HP		26.31	3.95	30.26	AC/HR	3.56
					Average Rental Rate Per Acre			2.11						Average Custom Rate Per Acre		5.92
LOOSE HAY STACKERS																$/T
3 TON	26000	40	93.32	8.13	101.44	101.44	15.22	116.66	101.44			133.20	19.98	153.18		19.15
		80	50.86	8.13	58.99	58.99	8.85	67.84	58.99	22.76	9.00	90.74	13.61	104.36	8.0	13.04
		120	36.23	8.13	44.35	44.35	6.65	51.01	44.35	95 HP		76.11	11.42	87.53	T/HR	10.94
6 TON	40900	40	146.80	12.78	159.58	159.58	23.94	183.52	159.58			194.92	29.24	224.16		16.01
		80	80.01	12.78	92.79	92.79	13.92	106.71	92.79	26.34	9.00	128.13	19.22	147.35	14.0	10.53
		120	56.99	12.78	69.77	69.77	10.47	80.24	69.77	110 HP		105.11	15.77	120.88	T/HR	8.63
					Average Rental Rate Per Tonne			8.05						Average Custom Rate Per Tonne		11.78
LOOSE HAY STACK MOVERS																
3 TON	4480	40	16.08	1.40	17.48	17.48	2.62	20.10	17.48			40.37	6.06	46.43		
		80	8.76	1.40	10.16	10.16	1.52	11.69	10.16	13.89	9.00	33.06	4.96	38.01		
		120	6.24	1.40	7.64	7.64	1.15	8.79	7.64	65 HP		30.53	4.58	35.11		
6 TON	11300	40	40.56	3.53	44.09	44.09	6.61	50.70	44.09			75.85	11.38	87.22		
		80	22.11	3.53	25.64	25.64	3.85	29.48	25.64	22.76	9.00	57.39	8.61	66.00		
		120	15.75	3.53	19.28	19.28	2.89	22.17	19.28	95 HP		51.03	7.65	58.69		

DRAWN EQUIPMENT – LIVESTOCK AND FORAGE

MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	MACHINE COSTS PER HOUR: FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	MACHINE RENTAL PER HOUR: BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	CUSTOM WORK RATES: MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC CUSTOM RATE
MANURE SPREADERS																
70-139	4740	60	12.90	1.48	14.38	14.38	2.16	16.54	14.38			34.53	5.18	39.71		
CUBIC FT.		80	10.16	1.48	11.64	11.64	1.75	13.39	11.64	11.15	9.00	31.79	4.77	36.56		
LEVEL		100	8.60	1.48	10.08	10.08	1.51	11.60	10.08	55 HP		30.23	4.53	34.77		
140-199	6100	60	16.60	1.91	18.51	18.51	2.78	21.29	18.51			38.66	5.80	44.46		
CUBIC FT.		80	13.08	1.91	14.98	14.98	2.25	17.23	14.98	11.15	9.00	35.13	5.27	40.40		
LEVEL		100	11.07	1.91	12.98	12.98	1.95	14.92	12.98	55 HP		33.12	4.97	38.09		
200-249	9110	60	24.80	2.85	27.64	27.64	4.15	31.79	27.64			50.54	7.58	58.12		
CUBIC FT.		80	19.53	2.85	22.38	22.38	3.36	25.73	22.38	13.89	9.00	45.27	6.79	52.06		
LEVEL		100	16.53	2.85	19.38	19.38	2.91	22.29	19.38	65 HP		42.27	6.34	48.61		
250-350	7800	60	21.23	2.44	23.67	23.67	3.55	27.22	23.67			50.43	7.57	58.00		
CUBIC FT.		80	16.72	2.44	19.16	19.16	2.87	22.03	19.16	17.77	9.00	45.92	6.89	52.81		
LEVEL		100	14.16	2.44	16.59	16.59	2.49	19.08	16.59	75 HP		43.36	6.50	49.86		
350 +	11200	60	30.49	3.50	33.99	33.99	5.10	39.08	33.99			63.50	9.53	73.03		
CUBIC FT.		80	24.01	3.50	27.51	27.51	4.13	31.64	27.51	20.52	9.00	57.03	8.55	65.58		
LEVEL		100	20.33	3.50	23.83	23.83	3.57	27.40	23.83	85 HP		53.35	8.00	61.35		
MANURE SPREADERS LIQUID																
800-1299	9430	120	12.83	1.68	14.52	14.52	2.18	16.70	14.52			41.28	6.19	47.48		
GAL		140	11.55	1.68	13.24	13.24	1.99	15.22	13.24	17.77	9.00	40.00	6.00	46.00		
		160	10.70	1.68	12.38	12.38	1.86	14.24	12.38	75 HP		39.15	5.87	45.02		
1300-1899	12700	120	17.28	2.27	19.55	19.55	2.93	22.49	19.55			46.32	6.95	53.27		
GAL		140	15.56	2.27	17.83	17.83	2.67	20.50	17.83	17.77	9.00	44.59	6.69	51.28		
		160	14.41	2.27	16.67	16.67	2.50	19.18	16.67	75 HP		43.44	6.52	49.96		
MOWER CONDITIONERS																
7 FT	10800	50	32.56	3.86	36.41	36.41	5.46	41.88	36.41			55.02	8.25	63.27		$/AC
		70	24.15	3.86	28.00	28.00	4.20	32.20	28.00	9.60	9.00	46.60	6.99	53.59	3.5	18.08
		90	19.60	3.86	23.46	23.46	3.52	26.97	23.46	45 HP		42.06	6.31	48.37	AC/HR	15.31
9 FT	12200	50	36.78	4.36	41.14	41.14	6.17	47.31	41.14			59.74	8.96	68.70		13.82
		70	27.28	4.36	31.63	31.63	4.74	36.38	31.63	9.60	9.00	50.23	7.54	57.77	4.5	15.27
		90	22.14	4.36	26.50	26.50	3.97	30.47	26.50	45 HP		45.10	6.76	51.86	AC/HR	12.84
12 FT	18400	50	55.47	6.57	62.04	62.04	9.31	71.35	62.04			82.19	12.33	94.52		11.52
		70	41.14	6.57	47.71	47.71	7.16	54.86	47.71	11.15	9.00	67.86	10.18	78.03	6.0	15.75
		90	33.39	6.57	39.96	39.96	5.99	45.96	39.96	55 HP		60.11	9.02	69.12	AC/HR	13.01
14 FT	21500	50	64.81	7.68	72.49	72.49	10.87	83.37	72.49			92.64	13.90	106.54		11.52
		70	48.07	7.68	55.75	55.75	8.36	64.11	55.75	11.15	9.00	75.89	11.38	87.28	7.0	15.22
		90	39.01	7.68	46.69	46.69	7.00	53.70	46.69	55 HP		66.84	10.03	76.87	AC/HR	12.47
			Average Rental Rate Per Acre		8.90							Average Custom Rate Per Acre				10.98
																13.41
MOWERS, SICKLE, TRAILING																
7 FT	4470	50	13.48	1.60	15.07	15.07	2.26	17.33	15.07			32.89	4.93	37.82		$/AC
		70	9.99	1.60	11.59	11.59	1.74	13.33	11.59	8.81	9.00	29.40	4.41	33.81	3.5	10.81
		90	8.11	1.60	9.71	9.71	1.46	11.16	9.71	35 HP		27.52	4.13	31.65	AC/HR	9.66
9 FT	4710	50	14.20	1.68	15.88	15.88	2.38	18.26	15.88			33.69	5.05	38.75		9.04
		70	10.53	1.68	12.21	12.21	1.83	14.04	12.21	8.81	9.00	30.03	4.50	34.53	4.5	8.61
		90	8.55	1.68	10.23	10.23	1.53	11.76	10.23	35 HP		28.04	4.21	32.25	AC/HR	7.67
			Average Rental Rate Per Acre		3.46							Average Custom Rate Per Acre				7.17
																8.67

DRAWN EQUIPMENT – LIVESTOCK AND FORAGE

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC CUSTOM RATE
POST POUNDERS																
	3520	80	7.19	0.60	7.78	7.78	1.17	8.95	7.78			27.93	4.19	32.12		
		100	6.04	0.60	6.64	6.64	1.00	7.63	6.64	11.15	9.00	26.78	4.02	30.80		
		200	5.32	0.60	5.92	5.92	0.89	6.81	5.92	55 HP		26.07	3.91	29.98		
			Average Rental Rate Per Hour					7.63				Average Custom Rate Per Hour				30.80
ROTARY CUTTERS																
6 FT	1900	50	5.73	0.68	6.41	6.41	0.96	7.37	6.41			26.55	3.98	30.54		
3PH		70	4.25	0.68	4.93	4.93	0.74	5.67	4.93	11.15	9.00	25.07	3.76	28.83		
		90	3.45	0.68	4.13	4.13	0.62	4.75	4.13	55 HP		24.27	3.64	27.91		
6-7 FT HD	3700	50	11.15	1.32	12.48	12.48	1.87	14.35	12.48			32.62	4.89	37.52		
TRAILING		70	8.27	1.32	9.59	9.59	1.44	11.03	9.59	11.15	9.00	29.74	4.46	34.20		
		90	6.71	1.32	8.04	8.04	1.21	9.24	8.04	55 HP		28.18	4.23	32.41		
10 FT	6400	50	19.29	2.29	21.58	21.58	3.24	24.82	21.58			44.47	6.67	51.14		
TRAILING		70	14.31	2.29	16.59	16.59	2.49	19.08	16.59	13.89	9.00	39.49	5.92	45.41		
		90	11.61	2.29	13.90	13.90	2.08	15.98	13.90	65 HP		36.79	5.52	42.31		
15 FT	11200	50	33.76	4.00	37.76	37.76	5.66	43.43	37.76			64.53	9.68	74.21		
TRAILING		70	25.04	4.00	29.04	29.04	4.36	33.40	29.04	17.77	9.00	55.81	8.37	64.18		
		90	20.32	4.00	24.32	24.32	3.65	27.97	24.32	75 HP		51.09	7.66	58.75		
TUB GRINDERS																
8 TON	17600	100	27.54	2.82	30.36	30.36	4.55	34.91	30.36			65.70	9.86	75.56		
		200	15.09	2.82	17.91	17.91	2.69	20.59	17.91	26.34	9.00	53.25	7.99	61.24		
		300	10.99	2.82	13.81	13.81	2.07	15.88	13.81	110 HP		49.15	7.37	56.52		

DRAWN EQUIPMENT – MISCELLANEOUS

			MACHINE COSTS PER HOUR			MACHINE RENTAL PER HOUR			CUSTOM WORK RATES							
MACHINE SIZE	ORIG. COST	ANN. HRS OF USE	FIXED COST $/HR	REPAIR COST $/HR.	TOTAL COSTS PER HOUR (NO LABOUR) $/HR.	BASIC RENTAL COSTS $/HR.	MARGIN $/HR.	RENTAL RATE $/HR.	MACHINE TOTAL COSTS $/HR	POWER UNIT COSTS $/HR	LABOUR COSTS $/HR	BASIC CUSTOM WORK RATES $/HR.	MARGIN $/HR.	CUSTOM RATE $/HR.	WORK RATE	CALC. CUSTOM RATE
FRONT-END LOADERS																
FOR 50-100	4180	80	7.20	0.84	8.03	8.03	1.21	9.24	8.03							
HP. TRACTOR		100	5.91	0.84	6.75	6.75	1.01	7.76	6.75	17.77	9.00	34.80	5.22	40.02		
W/BUCKET		120	5.08	0.84	5.91	5.91	0.89	6.80	5.91	75 HP		33.52	5.03	38.54		
												32.68	4.90	37.58		
FOR 70-140	4990	80	8.59	1.00	9.59	9.59	1.44	11.03	9.59							
HP. TRACTOR		100	7.06	1.00	8.06	8.06	1.21	9.27	8.06	22.76	9.00	41.35	6.20	47.55		
W/BUCKET		120	6.06	1.00	7.06	7.06	1.06	8.12	7.06	95 HP		39.81	5.97	45.79		
												38.82	5.82	44.64		
SCRAPERS																
5.5-6.5	11600	60	31.57	3.63	35.20	35.20	5.28	40.48	35.20							
YARD		80	24.87	3.63	28.49	28.49	4.27	32.77	28.49	34.29	9.00	78.49	11.77	90.26		
		100	21.05	3.63	24.68	24.68	3.70	28.38	24.68	150 HP		71.78	10.77	82.55		
												67.97	10.20	78.16		
8.5 YARD	15300	60	41.65	4.78	46.43	46.43	6.96	53.39	46.43							
		80	32.80	4.78	37.58	37.58	5.64	43.22	37.58	38.87	9.00	94.30	14.15	108.45		
		100	27.77	4.78	32.55	32.55	4.88	37.43	32.55	170 HP		85.45	12.82	98.27		
												80.42	12.06	92.49		
SNOW BLOWERS																
FRONT MOUNT	7190	20	47.27	3.42	50.69	50.69	7.60	58.29	50.69							
7 FT		40	25.43	3.42	28.85	28.85	4.33	33.18	28.85	22.76	9.00	82.45	12.37	94.81		
		100	12.33	3.42	15.75	15.75	2.36	18.11	15.75	95 HP		60.61	9.09	69.70		
												47.50	7.13	54.63		
FRONT MOUNT	7430	20	48.85	3.53	52.38	52.38	7.86	60.24	52.38							
8 FT		40	26.28	3.53	29.81	29.81	4.47	34.28	29.81	22.76	9.00	84.14	12.62	96.76		
		100	12.74	3.53	16.27	16.27	2.44	18.71	16.27	95 HP		61.57	9.24	70.80		
												48.03	7.20	55.23		
REAR MOUNT	2570	20	16.90	1.22	18.12	18.12	2.72	20.84	18.12							
7 FT		40	9.09	1.22	10.31	10.31	1.55	11.86	10.31	13.89	9.00	41.01	6.15	47.16		
		100	4.41	1.22	5.63	5.63	0.84	6.47	5.63	65 HP		33.20	4.98	38.18		
												28.52	4.28	32.80		
REAR MOUNT	2810	20	18.48	1.33	19.81	19.81	2.97	22.78	19.81							
8 FT		40	9.94	1.33	11.28	11.28	1.69	12.97	11.28	13.89	9.00	42.70	6.41	49.11		
		100	4.82	1.33	6.15	6.15	0.92	7.08	6.15	65 HP		34.17	5.13	39.29		
												29.05	4.36	33.40		

APPENDIX A

CUSTOM GRAIN HAULING

A. Farm to Market

a. Truck - 3 Ton, 320 bushel: truck cost $51.51/hour excl. labour.
b. Auger - 7 in.x 40' w/gas engine: auger costs $11.10/hour excl. labour.
c. Labour rate per hour $9.00.
d. Unload time: 10 minutes at elevator (truck engine and PTO running 5 minutes).

Distance to Market in miles	3	6	9	12	15	20	25
Auger Costs per Load	$3.70	$3.70	$3.70	$3.70	$3.70	$3.70	$3.70
Time in minutes	20	20	20	20	20	20	20
Truck Costs per Load	$14.59	$22.32	$30.05	$36.92	$42.93	$49.79	$61.81
Time in minutes (incl. 5 min. unload time)	17	26	35	43	50	58	72
Labour Costs per Load	$6.30	$7.65	$9.00	$10.20	$11.25	$12.45	$14.55
Total time in minutes	42	51	60	68	75	83	97
Total Cost per Load	$24.59	$33.67	$42.75	$50.81	$57.87	$65.94	$80.06
Margin per Load (15%)	$3.69	$5.05	$6.41	$7.62	$8.68	$9.89	$12.01
Custom Rate per Load (320 bu.)	**$28.28**	**$38.72**	**$49.16**	**$58.44**	**$66.56**	**$75.83**	**$92.07**
Custom Rate per Bushel	**$0.09**	**$0.12**	**$0.15**	**$0.18**	**$0.21**	**$0.24**	**$0.29**

The calculated custom rate is $.09/bu. for the first three miles plus $.009/bu. for each additional mile.

B. Example of Trucking Seed to Field

Assume

- seeding 160 acres with 30' discer (12 hours)

- 3 ton truck costs $51.51 /hr.
- truck running time includes -loading 5 min. = 0.08 hours
  -driving to and from field 15 min. = 0.25 hours
  -running time in field 12 hrs. x 20% = 2.40 hours
  2.73 hours

Truck Cost for 160 acres is $51.51 /hour x 2.73 hours = $140.63
Truck Cost per acre is $0.88.

If one truck is used for fertilizer and one for seed the trucking cost per acre = 2 x 0.88/ac.= $1.76 /ac.

C. **Field to Yard**

a. Truck - 3 Ton, 320 Bushel: Truck Cost $ 51.51/hour excl. labour.
b. Auger - 7 in. x 40'w/gas engine: Auger Costs $11.10/hour excl. labour.
c. Labour rate per hour $9.00.
d. Unload time: 11 minutes at bin (truck engine and PTO running 5 minutes)

(1) **Time Use**

Distance: Field to yard in miles	0.5	1	1.5	2	3	4
Travel Time to Yard and Return (min.)	4	6.5	8.5	10	12	15
Total Unload Time at Bin (min.)	11	11	11	11	11	11
Time truck running during unload at bin (min.)	5	5	5	5	5	5
Time unload twice from one combine or once from each of two combines (min.)	10	10	10	10	10	10
Time per Trip Truck Running (min.)	19	21.5	23.5	25	27	30
Waiting Time in Field (Truck not running)						
(a) hauling from one combine (min.)	47	44.5	42.5	41	39	36
(b) hauling from two combines (min.)	11	8.5	6.5	5	3	0
Total Time per Trip						
(a) hauling from one combine (min.)	72	72	72	72	72	72
(b) hauling from two combines (min.)	36	36	36	36	36	36
(2) Component Costs per Trip						
(a) Truck Costs/Trip	$16.31	$18.46	$20.18	$21.46	$23.18	$25.76
(b) Auger Costs/Trip	$2.03	$2.03	$2.03	$2.03	$2.03	$2.03
(c) Labour Costs/Trip - one combine	$10.80	$10.80	$10.80	$10.80	$10.80	$10.80
- two combines	$5.40	$5.40	$5.40	$5.40	$5.40	$5.40
(3) Custom Rate $/Hr. (incl. 15% margin)						
- hauling from one combine	$27.93	$29.99	$31.63	$32.87	$34.51	$36.98
- hauling from two combines	$45.51	$49.63	$52.92	$55.39	$58.68	$63.61
(4) Custom Rate $/Bus. (incl. 15% margin)						
- haul from one combine bu/hr = 217	$0.13	$0.14	$0.15	$0.15	$0.16	$0.17
- haul from two combines bu/hr = 433	$0.11	$0.11	$0.12	$0.13	$0.14	$0.15

The calculated custom rate for hauling from one combine is $.14/bu. for the first mile plus $.011/bu. for each additional mile.

The calculated custom rate for hauling from two combines is $.11/bu. for the first mile plus $.011/bu. for each additional mile.

APPENDIX B

Combine Cleaning and Separating Area (in^2)

Model No.	Clean and Sep. Area* sq. in.	Model No.	Clean and Sep. Area* sq. in.
Belarus		*John Deere*	
DON 1500	17,811	9400	17,809
		9500	18,894
Cereal Implements		9600	22,707
9600	10,980	9501	18,894
9850	17,778		

* This figure represents the sum of the separating area and the cleaning area. Separating area includes the area of the straw walkers, concaves and transition grate. Cleaning area includes the chaffer sieve, chaffer extension, precleaner, and cleaning sieve.

Conventional Combine Threshing Capacities (Wheat)

Combine Size	Approx. bu/hour Field Efficiency (100%)	(69%)	Approx. ac/hour Field Efficiency (30 bu/ac) (100%)	(69%)
Self Propelled Conventional				
less than 15,999 sq. in.	325	225	11.0	7.5
16,000 - 19,999 sq. in.	415	285	14.0	9.5
20,000+ sq. in.	480	330	16.0	11.0
Pull Type Conventional				
less than 13,999 sq. in.	260	180	8.5	6.0
14,000+ sq. in.	390	270	13.0	9.0

Rotary Combine Classification

	Model
Self Propelled Rotary	
Small	CIH 1620, CIH 1640, DA R40
Medium	CIH 1660, FNH TR86, DA R50
Large	CIH 1680, DA R60, DA R70, FNH TR96
Pull type rotary	
Large	CIH 1682

Rotary Combine Threshing Capacities (Wheat)

	Approx. bu/hour Field Efficiency (100%)	(69%)	Approx. ac/hour Field Efficiency (30 bu/ac) (100%)	(69%)
Small S.P.	350	240	11.5	8.0
Medium S.P.	415	285	13.5	9.5
Large S.P.	520	360	17.5	12.0
Large P.T.O	480	330	16.0	11.0

APPENDIX C

Rental Rate Calculation Worksheet

Machine_____ Original Cash Cost $_____

Basic Rental Cost (Per Hour)

Fixed Costs: _____ (Rate/hr*) x _____ (No. of $1000 orig. cash cost) = $_____/hr (A)

Repairs: _____ (Rate/hr*) x _____ (No. of $1000 orig. cash cost) = $_____/hr (B)

Basic Rental Cost (A + B) = $ _____ /hr (C)

Rental Margin = _____ (Suggested Rate 15%) x _____ (Basic Rental Costs (C)) = $_____/hr (D)

Rental Rate Per Hour

(C + D) = $ _____ /hr

*Refer to "Machinery Cost Calculation Guide" Appendix F, col. D for fixed costs, col. E for repair costs - rate per hour.

APPENDIX D

Custom Rate Calculation Worksheet

Operation _____

Power Unit _____ **Original Cash Cost** $_____
Tractor, SP Machine

Machine _____ **Original Cash Cost** $_____
Tillage Implements, PTO Machine, Other

Power Unit Costs (Per Hour)

Fixed Costs = _____ (Rate/hr*) x _____ (No. of $1000 Orig. cash cost) = $_____/hr (1)

Fuel = _____ (Litre/hr) x _____ (Price/Litre) = $_____/hr (2)

Oil and Grease $.35/hr/100 Hp = $_____/hr (3)

Repairs = _____ (Rate/hr*) x _____ (No. of $1000 orig. cash cost) = $_____/hr (4)

Total costs of Power Unit (1+2+3+4) $_____/hr (A)

Machine Costs (Per Hour)

Fixed Costs = _____ (Rate/hr*) x _____ (No. of $1000 Orig. cash cost) = $_____/hr (5)

Repairs = _____ (Rate/hr*) x _____ (No. of $1000 orig. cash cost) = $_____/hr (6)

Total Costs of Machinery (5 + 6) $_____/hr (B)
Labour Cost per Hour $_____/hr (C)
Total Cost of Power Unit, Machine and Operator (A + B + C) $_____/hr (D)
Margin per Hour _____ (Suggested rate 15%) x $_____/hr (D) = $_____/hr (E)
Custom Rate Total Cost + Margin (D + E) $_____/hr (F)
Work rate (acres/hr)** _____ac/hr (G)
Custom rate per acre** (F/G) $_____/acre

* Refer to "Machinery Cost Calculation Guide" Appendix F, Col. D for fixed costs, col. E for repair costs - rate per hour.

** Where appropriate, substitute acres with other units (e.g. bales, tons).

APPENDIX E

Formulas Used in Calculations

A. Fixed costs per hour are the sum of (i) Depreciation, (ii) Investment Costs, (iii) Insurance and Housing.

i) Depreciation/hr = $$\frac{\left(\frac{\text{Original Cash Cost - Salvage Value*}}{\text{Years Lifetime}}\right)}{\text{Annual Hours Use}}$$

ii) Investment Cost/hr = $$\frac{\left(\left(\frac{\text{Orig. Cash Cost + Salvage Value*}}{2}\right) \times 13\%^{**}\right)}{\text{Annual Hours Use}}$$

iii) Insurance and Housing/hr = $$\frac{\text{Original Cash Cost} \times 1\%}{\text{Annual Hours Use}}$$

The short cut method calculates fixed costs on an hourly basis per $1000 of original cost.

$\frac{\text{Original Cost}}{1000}$ x Applicable cost factor (from Appendix F, Column D)

B. Repair Costs are calculated on an hourly basis per $1,000 of original cost.

$\frac{\text{Original Cost}}{1000}$ x Applicable cost factor from Appendix F, Column E.

Acres Per Hour

Tillage Operations (82.5% field efficiency) $\frac{\text{Machine Width (ft) x Speed (mph)}}{10}$

Seeding and Harvesting (69% field efficiency) $\frac{\text{Machine Width (ft) x Speed (mph)}}{12}$

* Salvage value is assumed to be 10% of Original Cash Cost
** 13% assumes 50% borrowed - 50% owned

APPENDIX F
Machinery Cost Calculation Guide

MACHINE	A ANNUAL USE HRS	B DEP'N LIFE YRS	C AVERAGE ANNUAL REPAIR RATE % ORIG. CASH COST	D FIXED COST/ HOUR/ $1000 ORIG. CASH COST	E REPAIR COST/ HOUR/ $1000 ORIG. CASH COST
				(FC$)	(RC$)
BALE WAGONS SP	60	17.5		2.2155	
	100	15	2	1.4150	0.2000
	140	13		1.0766	
COMBINES SP	120	13		1.2561	
(INCL.ROTARY)	150	12	3.2	1.0433	0.2133
	180	11		0.9073	
	350	8.5		0.5354	
GRAIN AUGERS	25	18		5.2600	
	50	15	2	2.8300	0.4000
	75	13		2.0097	
SPRAYERS SP	50	31		2.2106	
	100	26	2	1.1612	0.2000
	200	20		0.6325	
SWATHERS SP	60	17.5		2.2155	
	100	15	2.2	1.4150	0.2200
	140	13		1.0766	
TRACTORS 2WD	400	14.5		0.3589	
	600	13.0	3.1	0.2512	0.0517
	800	11.5		0.1997	
TRACTORS 4WD	400	14.5		0.3589	
	600	13.0	2.6	0.2512	0.0433
	800	11.5		0.1997	
TRUCKS GRAIN	100	13.5		1.4817	
	150	12	2.5	1.0433	0.1667
	200	11		0.8166	
TRUCKS 1/2 TON	200	10.5		0.8361	
	250	10	3.1	0.6860	0.1240
	300	9.5		0.5875	
AIRSEEDERS	100	17		1.3444	
	150	15	3	0.9433	0.2000
	200	13.5		0.7408	

MACHINE	A ANNUAL USE HRS	B DEP'N LIFE YRS	C AVERAGE ANNUAL REPAIR RATE % ORIG. CASH COST	D FIXED COST/ HOUR/ $1000 ORIG. CASH COST (FC#)	E REPAIR COST/ HOUR/ $1000 ORIG. CASH COST (RC#)
BULK APPLICATORS (GRANULES)	60	16	3	2.2958	0.3750
	80	15		1.7688	
	100	14		1.4579	
COMBINES PTO (INCL.ROTARY)	120	13	3.2	1.2561	0.2133
	150	12		1.0433	
	180	11		0.9073	
	350	8.5		0.5354	
CULTIVATORS - FIELD	150	17.5	SAND-CLAY 3.0-8.0	0.8862	0.2200
- H.D.	250	15		0.5660	
	350	13		0.4307	
DISCERS & DISCS TANDEM	100	17	3	1.3444	0.2000
	150	15		0.9433	
	200	13.5		0.7408	
DRILLS SEED	60	17.5	2.5	2.2155	0.2500
	100	15		1.4150	
	140	13		1.0766	
FERTILIZER SPREADERS	60	16	3	2.2958	0.3750
	80	15		1.7688	
	100	14		1.4579	
HARROWS	60	19.6	2.7	2.1236	0.2700
	100	17		1.3444	
	140	15		1.0107	
HARROW-PACKERS	60	19.6	2.7	2.1236	0.2700
	100	17		1.3444	
	140	15		1.0107	
PLOWS	100	17.5	4	1.3293	0.2667
	150	15		0.9433	
	200	13		0.7537	
PNEUMATIC GRAIN MOVERS	25	18	2	5.2600	0.4000
	50	15		2.8300	
	75	13		2.0097	

MACHINE	A ANNUAL USE HRS	B DEP'N LIFE YRS	C AVERAGE ANNUAL REPAIR RATE % ORIG. CASH COST	D FIXED COST/ HOUR/ $1000 ORIG. CASH COST (FC#)	E REPAIR COST/ HOUR/ $1000 ORIG. CASH COST (RC#)
RODWEEDERS	60	17.5		2.2155	
	100	15	2.5	1.4150	0.2500
	140	13		1.0766	
ROCK PICKER,ROCK RAKE	60	11		2.7220	
COMBINATIONS	80	10	2.5	2.1438	0.3125
	100	9		1.8150	
ROCK PICKERS	60	11		2.7220	
	80	10	2.5	2.1438	0.3125
	100	9		1.8150	
ROCK RAKES	60	11		2.7220	
	80	10	2.5	2.1438	0.3125
	100	9		1.8150	
SPRAYERS PTO	30	17.5		4.4310	
	50	15	2	2.8300	0.4000
	70	13		2.1533	
SWATHERS PTO	60	17.5		2.2155	
	100	15	2.9	1.4150	0.2900
	140	13		1.0766	
BALE MOVERS	40	14.5		3.5892	
	80	12	2.5	1.9563	0.3125
	120	10.5		1.3935	
BALERS LGE.	30	14.5		4.7856	
ROUND	60	12	1.5	2.6083	0.2500
	90	10.5		1.8579	
BALERS STANDARD	40	12		3.9125	
	80	10	2	2.1438	0.2500
	120	8.5		1.5615	
BALE THROWERS	40	12		3.9125	
	80	10	2	2.1438	0.2500
	120	8.5		1.5615	
BALE WAGONS PTO	60	17.5		2.2155	
	100	15	2.9	1.4150	0.2900
	140	13		1.0766	

MACHINE	A ANNUAL USE HRS	B DEP'N LIFE YRS	C AVERAGE ANNUAL REPAIR RATE % ORIG. CASH COST	D FIXED COST/ HOUR/ $1000 ORIG. CASH COST (FC¢)	E REPAIR COST/ HOUR/ $1000 ORIG. CASH COST (RC¢)
FORAGE HARVESTERS	40	14.5	2.5	3.5892	0.3125
	80	12		1.9563	
	120	10.5		1.3935	
GRINDER MIXERS	100	12.5	3.2	1.5350	0.1600
	200	10		0.8575	
	300	8.5		0.6246	
HAY RAKES	50	13	2	3.0146	0.2857
	70	12		2.2357	
	90	11		1.8146	
LOOSE HAY, - STACKERS - MOVERS	40	14.5	2.5	3.5892	0.3125
	80	12		1.9563	
	120	10.5		1.3935	
MANURE SPREADERS	60	11	2.5	2.7220	0.3125
	80	10		2.1438	
	100	9		1.8150	
MANURE SPREADERS -LIQUID	120	11	2.5	1.3610	0.1786
	140	10		1.2250	
	160	9		1.1344	
MOWERS - CONDITIONER - SICKLE	50	13	2.5	3.0146	0.3571
	70	12		2.2357	
	90	11		1.8146	
POST POUNDERS	80	11	1.7	2.0415	0.1700
	100	10		1.7150	
	120	9		1.5125	
ROTARY CUTTERS	50	13	2.5	3.0146	0.3571
	70	12		2.2357	
	90	11		1.8146	
TUB GRINDERS	100	12	3.2	1.5650	0.1600
	200	10		0.8575	
	300	8.5		0.6246	

MACHINE	A ANNUAL USE HRS	B DEP'N LIFE YRS	C AVERAGE ANNUAL REPAIR RATE % ORIG. CASH COST	D FIXED COST/ HOUR/ $1000 ORIG. CASH COST (FC#)	E REPAIR COST/ HOUR/ $1000 ORIG. CASH COST (RC#)
FRONT END LOADERS	80	16		1.7219	
	100	15	2	1.4150	0.2000
	120	14		1.2149	
SCRAPERS	60	11		2.7220	
	80	10	2.5	2.1438	0.3125
	100	9		1.8150	
SNOW BLOWERS	20	18		6.5750	
	40	15	1.9	3.5375	0.4750
	100	10		1.7150	

APPENDIX G

Factors to consider When Custom Hiring

Custom hiring is a business arrangement. The terms of the arrangement should be written in a formal agreement. If unwritten, the terms are more likely to be misunderstood in case of a dispute. The following should be considered in a custom hiring agreement.

Timeliness

Significant losses can occur if an operation is not started or completed on time. To facilitate planning, a custom hiring agreement should include a schedule of operations for both parties. For example, when the custom combiner is picking up swathed grain, the schedule would outline time periods for swathing by the owner and combining by the custom operator. Such a schedule would be subject to weather conditions and crop maturity.

Operations

The parties should write into the agreement the exact operations to be performed by each party and the machine, materials and labour to be supplied by each.

Rate Schedule

The custom operator should stipulate the rate for each operation to be performed on the basis of acreage, time (hour, day, week) or total operation performed.

Management

A custom hiring agreement should ensure that the custom operator will employ acceptable management practices in his operations.

Terms of Payment

A custom hiring agreement should stipulate terms of payment for custom operations. As well the custom operator should bill the client upon the completion of each custom operation. The bill should indicate actual units (hours, acres, etc.) completed, the rate charged per unit, the total charge and the date payment is due.

Termination

A minimum period for notice of termination should be included in a custom hiring agreement. A penalty should be stipulated for unjustified termination within the term of the agreement.

Insurance

A custom operator may be considered differently than a farmer when insuring. It is advised that this point be clarified with the insurance company if one considers doing custom work or renting equipment.

Sample Custom Farming Agreement

Date:_____

Section A

_____, hereinafter referred to as the "custom operator", agrees to conduct the following types of machine operations on the described farm land of _____, hereinafter referred to as the "owner", located at _____, Saskatchewan, for the year 19____.

Description of Machine Operation	Legal Location	Acres	Fee Per Acre

Note: Be specific about what each machine operation includes (i.e., harvesting - does it include swathing, combining with pickup and hauling the grain to the storage facility, or straight cutting the crop and hauling the grain?)

Section B

The custom operator agrees to complete the said machine operations according to the following schedule:

Machine Operations	Commencement Date	Completion Date

Section C

If during the term hereof, any of the goods and chattels of the custom operator are seized by any creditor, this agreement is forfeited and void.

The term owner and custom operator shall include the executors, administrators and assigns of the owner and custom operator, respectively.

_____
Witness

_____
Owner

_____
Witness

_____
Custom Operator